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ABSTRACT

This research is based on a survey of teacher-practitioners of individualized instruction in member colleges of the Council of North Central Community-Junior Colleges. The survey was mailed to the presidents of 307 colleges in September 1974, with results tabulated in November 1974 based on responses from 726 practitioners from 120 colleges in 19 states. A brief review of the literature points out some of the virtues and drawbacks of individualized instruction. The survey focuses on the characteristics of the institutions where individualized instruction is used as well as on the characteristics of the practitioners. Overall, the usual descriptors of practitioners (sex, age, academic attainment) tend not to vary significantly from expectations with respect to type, location, age or enrollment of the institution. Distribution of individualized instruction by subject area is depicted in tabular form. Practitioners tend to be similar with respect to selection of format, pace, and achievement measures; unfortunately, relatively few have attempted to systematically evaluate their instructional techniques. One conclusion that was generated by the study is that most instructors who use individualized instruction work more hours than the average instructor and spend an inordinate amount of time with students. (Author/AH)

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# status of individualized instruction

## in colleges identified as members of the council of north central community and junior colleges

## 1974-1975

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# STATUS OF INDIVIDUALIZED INSTRUCTION IN COLLEGES IDENTIFIED AS MEMBERS OF THE COUNCIL OF NORTH CENTRAL COMMUNITY-JUNIOR COLLEGES

A Report to the Council of North Central
Community Junior Colleges
April 1975

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STATUS OF INDIVIDUALIZED INSTRUCTION
IN COLLEGES IDENTIFIED AS MEMBERS OF THE
COUNCIL OF NORTH CENTRAL COMMUNITY-JUNIOR COLLEGES

Abstract

This research is based on a survey of teacher-practitioners of individualized instruction in member colleges of the Council of North Central Community-Junior Colleges. The survey was mailed to the presidents of 307 colleges in September 1974. By November 1974 the researchers had completed data analysis for 726 practitioners' responses from 120 colleges located in 19 states.

## INTRODUCTION

Community-junior colleges have assumed the task of providing meaningful educational experiences for an increasingly heterogeneous group of students. Unfortunately, they have accepted this challenge during a period when the average American has become somewhat skeptical of the capability of the institutions in his society to deliver what they have promised. Administrators and faculty in postsecondary education are finding that the promises of the "open-door" admissions policies which have gained such prominence in recent years must now be met in terms of increased student knowledges, skills, job placements, social adjustments, etc., or simply be acknowledged as having been hopelessly idealistic in the first place.

Some administrators and faculty leaders even now are saying that the "open door" of the two-year college should be redefined as simply a less expensive (by virtue of larger classes, heavier teaching loads, and a virtually nonexistent "pure research" commitment) opportunity for the more intelligent, better motivated, and perhaps less emotionally and/or financially secure student to reap the benefits of higher education, while residing near his/her home and working part-time. Others argue that it is too soon to be redefining the "open door" and have

modified instructional procedures to deal with the greater diversity in student abilities. In some cases, they have developed behavioral criteria for course and/or curriculum entry that result in more homogeneous student groups. In other cases, they have developed and/or acquired extensive teaching materials to use in individualizing their instruction with respect to entry, mode, pace, evaluation, and other conditions of learning.

While it is probably too early to tell the nature and extent of the impact of individualized approaches to teaching and learning upon the accountability problems presently facing the "open door" institutions, one thing is relatively certain--those who practice and promote such approaches are beginning to gain the attention of the decision makers in higher education. The literature of higher education presently abounds with articles extolling the virtues of individualized instruction for solving problems related to costs of instruction, student failure, student discipline, space utilization, grade dissatisfaction, etc.

In his travels to various postsecondary institutions in the Mid-West as a consultant and as a member of visiting teams for the North Central Association of Colleges and Schools, the senior researcher has noted a growing number of faculty who seem to be presently employing or developing individualized instruction approaches to teaching/learning in their area of expertise.

## The Questions Asked

Noting this phenomenon, the researchers asked, "What is the present status of individualized instruction in two year postsecondary institutions in the north central region? Is its practice widespread? Are there characteristics of institutions (type, location, years of operation, size) that seem to be related to the development and use of individualized teaching approaches? Do the practitioners have a different profile (age, sex, academic preparation) than the

average community-junior college teacher?"

Design of the Study

These questions were posed in a modest proposal to the Council of North Central Community-Junior Colleges, which was funded. Two brief survey forms were designed and mailed to the Presidents of 307 colleges in September of 1974. In November of 1974, the researchers completed data analysis for 726 teacher-practitioner responses. For the purposes of this study, responses were analyzed from 120 colleges located in all 19 states to which surveys were mailed.*

A Brief Look at the Literature

Most teachers report that individualized instruction results in an increase in learner achievement. Bent (1), Heider (2), Gillespie (3), Hunter (4), and Lewis (5) have reported the effectiveness of individualized approaches with respect to achievement in the physical sciences. These writers all agree that both students and teachers work harder using individualized approaches. They also agree that students achieve at a higher level as measured by tests. Heider (2) and Gillespie (3), in studies of student achievement as indicated by grade-point averages, reported that generally the percentage of A and B grades increased and the percentage of D and F grades decreased. Hunter (4), in a study comparing different types of individualized instruction approaches with a more traditional lecture-discussion approach, reported greater achievement in his experimental groups on both unit and final examinations.

In psychology, Treffinger (6) reported that self-directed learning techniques helped solve learning problems related to conformity, diversity, relevance, boredom, learning styles, evaluation, and appropriateness of challenge. Barlow (7) found the learning contract method to be supportive of creative use of resources, higher learner achievement, and motivation. He also recorded that teachers tended to

*In total more than 1000 responses from more than 140 colleges were returned. Some arrived too late or were judged inappropriate for this analysis.

spend more time with students.

At American River College, Mills (9) reported that "...individualized instruction is effective because it permits students to work at their own pace, to get as much help as they need from teachers and tutors and...to master course content."

On the other hand, Thiagarajan (8) reported that individualization can be overdone and may be detrimental to learning. Huther (10), in a thoughtfully written exposition questioning the assumptions implicit in some of the literature on individualized instruction, states that a possible outcome may be that students will become dependent upon highly individualized learning experiences and unable to learn in the more common, often ambiguous, environment presented in the larger society.

The question of the effectiveness of individualized approaches in solving the instructional problems of community college faculty, faced with the task of delivering instruction to classes too variable in ability, motivation, and attitude toward learning to permit the meaningful presentation or discussion of material at a predetermined "level", has not yet been fully answered, obviously. While experienced educators have learned to be wary of any "panacea" that is reported as being capable of solving all teaching-learning problems, individualized instruction does appear to be a viable instructional alternative which shows promise for dealing with at least some of the problems most common to community-junior college teachers.

Practitioners and Community-Junior Colleges

The practitioners of individualized instruction in community-junior colleges may be described as rather typical postsecondary teachers (Table I). About 37% are female, 62% male, only 2% are under 25 years old, 37% between 25 & 35, 34% between 35 & 45, and about 25% are over 45 years old. Eight percent of the practitioners hold a doctors degree, 64% a masters, 17% hold a bachelors, and 8%

TABLE I

CHARACTERISTICS OF PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION

(Row Percentages)

| | Sex | | Age | | | | Academic | | | | Totals | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fem. | Male | Under 25 | Bet. 25-35 | Bet. 35-45 | Over 45 | Bach | Mast | Doct | None | N | % |
| Type Inst. | | | | | | | | | | | | |
| Comp. C. Jr. | 37 | 62 | 2 | 36 | 35 | 26 | 12 | 70 | 10 | 4 | 475 | 65 |
| Tech. Coll. | 40 | 59 | 2 | 42 | 33 | 21 | 30 | 47 | 1 | 18 | 177 | 24 |
| Lib. A. Coll. | 35 | 65 | 2 | 30 | 28 | 37 | 12 | 75 | 14 | - | 43 | 6 |
| Other | 7 | 25 | - | 50 | 31 | 19 | - | 87 | 12 | - | 16 | 2 |
| Location | | | | | | | | | | | | |
| Urban | 46 | 53 | - | 30 | 39 | 31 | 18 | 65 | 5 | 9 | 150 | 21 |
| Suburban | 41 | 58 | 2 | 40 | 33 | 23 | 12 | 74 | 11 | 1 | 204 | 28 |
| Rural | 33 | 65 | 2 | 39 | 33 | 23 | 18 | 60 | 8 | 10 | 344 | 47 |
| Age Inst. | | | | | | | | | | | | |
| Under 5 y | 30 | 68 | 4 | 49 | 36 | 11 | 17 | 77 | 4 | - | 47 | 6 |
| Bet. 5 & 20 | 39 | 61 | 2 | 39 | 34 | 24 | 18 | 60 | 8 | 11 | 394 | 54 |
| Bet. 10 & 20 | 57 | 41 | - | 45 | 31 | 22 | 16 | 71 | 8 | 4 | 51 | 7 |
| Over 20 y | 36 | 63 | 1 | 29 | 33 | 33 | 14 | 69 | 9 | 2 | 222 | 31 |
| Enrollment | | | | | | | | | | | | |
| Bet. 1500-4000 | 37 | 62 | 2 | 38 | 34 | 24 | 18 | 62 | 7 | 9 | 622 | 86 |
| Over 4000 | 41 | 59 | 1 | 31 | 33 | 35 | 11 | 75 | 11 | 0 | 104 | 14 |
| Totals: N | 275 | 444 | 12 | 269 | 246 | 185 | 122 | 464 | 57 | 57 | 726 | 100 |
| % | 38 | 61 | 2 | 37 | 34 | 25 | 17 | 64 | 8 | 8 | 100 | |

are not degreed.

About two-thirds of the practitioners are employed in Colleges defined as Comprehensive Community-Junior Colleges, about one-fourth are identified with two-year technical colleges, and one in sixteen are faculty in two-year liberal arts colleges. Twenty percent of the practitioners work in an urban college, twenty-eight percent in a suburban college, and forty-seven percent are employed by colleges located in rural areas.

Most practitioners (86%) of individualized instruction are identified with colleges which enroll 1500-4000 full-time equivalent students. In that no responding practitioners came from colleges enrolling less than 1500 FTE students, the researchers assume that practitioners from smaller colleges chose not to respond or that there are few practitioners of individualized instruction in small community-junior colleges. Most practitioners (54%) are employed by colleges which are 5-10 years old, however, thirty percent are from colleges which are more than twenty years old...Seven percent from 10-20 year old colleges and six percent from colleges less than five years old.

The data in Table I indicates a slightly larger percentage of female practitioners in technical colleges (40%) compared to liberal arts (33%) or comprehensive community colleges (37%). Almost half of the urban college (46%) practitioners are female compared to two-fifths suburban (40%) and one-third rural (33%). Females comprise over half of the practitioners from colleges ten to twenty years old (57%) compared to about one-third of the practitioners in colleges less than ten years old and colleges over twenty years old.

The average age of practitioners in liberal arts colleges is slightly older (37% over 45) than practitioners in other type colleges. As might be expected, the average age of practitioners in institutions under 5 years old is slightly younger compared to other institutions. Technical colleges have fewer practitioners with advanced degrees and more practitioners holding a bachelors degree or less.

Practitioners holding graduate degrees are more frequent in suburban colleges and in larger institutions.

Overall, the usual descriptors of practitioners...sex, age, academic attainment...tend not to vary significantly from expectations with respect to type, location, age, or enrollment of the institution.

Practitioners and Subject Area

Practitioners of individualized instruction are generally distributed over nine subject areas. Communications 16%, business 16%, technical 15%, science 12%, social science 11%, mathematics 10%, health 9%, humanities 3%, and physical education 1%. Table II records the percentages of practitioners in each subject area by type, location, age, and size of institution.

As might be expected practitioners in comprehensive community colleges are rather evenly distributed over seven of the nine areas (excluding PE and humanities). Technical colleges tend to have more practitioners in technical (27%) and business (25%) subject areas. And liberal arts colleges have more teachers of individualized instruction in communications and humanities.

Interestingly, a larger percentage of practitioners of individualized instruction in mathematics (25%) are employed by colleges less than 5 years old. These younger colleges also (perhaps expectedly) are under represented by technical (4%), social studies (4%), and health (4%) practitioners. Colleges between 10 and 20 years old tend to have more communications (25%) and health (18%), and fewer social studies (6%) practitioners than might be expected. Larger institutions are represented by a larger percentage of communications (24%) and a lower percentage of science (7%) practitioners compared to smaller institutions.

Practitioner and Instruction Level

The respondents were asked to check the level of course(s) for which they were using individualized instruction. Three levels and four combinations were

TABLE II

SUBJECT AREA OF PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION

(Row Percentages)

| | Subject Area | | | | | | | | | | Totals | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hum. | Sci. | Math. | Tech. | Bus. | Soc.S. | Health | Commun. | PE | Other | N | % |
| Type Inst. | | | | | | | | | | | | |
| Comp. C. Jr. | 3 | 15 | 9 | 12 | 13 | 12 | 11 | 17 | 1 | 3 | 475 | 65 |
| Tech. Coll. | 2 | 4 | 8 | 27 | 25 | 9 | 7 | 14 | - | 2 | 177 | 24 |
| Lib. A. Coll. | 7 | 12 | 19 | 5 | 16 | 16 | - | 21 | - | 5 | 43 | 6 |
| Other | 6 | 19 | 12 | - | 12 | - | 6 | 44 | - | - | 16 | 2 |
| Location | | | | | | | | | | | | |
| Urban | 1 | 9 | 9 | 18 | 18 | 9 | 17 | 16 | 1 | 1 | 150 | 21 |
| Suburban | 3 | 12 | 10 | 15 | 16 | 11 | 6 | 21 | 2 | 3 | 204 | 28 |
| Rural | 5 | 14 | 10 | 14 | 16 | 13 | 8 | 15 | 1 | 3 | 344 | 47 |
| Age Inst. | | | | | | | | | | | | |
| Under 5 y | 2 | 15 | 25 | 4 | 19 | 4 | 4 | 15 | - | 6 | 47 | 6 |
| Bet. 5 & 10 | 4 | 11 | 8 | 21 | 14 | 12 | 10 | 15 | 2 | 3 | 394 | 54 |
| Bet. 10 & 20 | 2 | 12 | 8 | 14 | 10 | 6 | 18 | 25 | - | 0 | 51 | 7 |
| Over 20 y | 3 | 15 | 10 | 7 | 20 | 13 | 7 | 18 | - | 2 | 222 | 31 |
| Enrollment | | | | | | | | | | | | |
| Bet. 1500-4000 | 3 | 13 | 10 | 15 | 16 | 12 | 10 | 15 | 1 | 2 | 622 | 86 |
| Over 4000 | 4 | 7 | 10 | 16 | 13 | 8 | 7 | 24 | 3 | 7 | 104 | 14 |
| Totals: N | 23 | 88 | 70 | 112 | 114 | 82 | 67 | 119 | | 20 | 726 | 100 |
| % | 3 | 12 | 10 | 15 | 16 | 11 | 9 | 16 | | 7 | 100 | |

indicated as classifications of level. Table III data may be interpreted to show that about 10% of the practitioners checked developmental, 29% college parallel, 28% career, and 25% some combination of levels.

Developmental level practitioners seem to exist at about the same percentages in all institutions described except in institutions between 10 and 20 years old where the percentage is nearly twice the expected. Similarly, college parallel practitioners are over represented in institutions under five years old and (as expected) in liberal arts colleges. Career level courses are more frequently reported by practitioners in technical colleges and older colleges, and less frequently by practitioners from liberal arts colleges.

Practitioners and Teaching Experience

As displayed in Table IV, forty percent of the responding practitioners have more than five years, but less than ten years, teaching experience. About one-fourth have 2-5 years experience.

Generally the more experienced teachers are employed at liberal arts colleges (42% over 10 years), and/or institutions over twenty years old, and/or larger institutions.

Some Observations

Based on an analysis of the descriptive data regarding practitioner characteristics, subject area, course level, and/or teaching experience, the researchers are not able to distinguish any unusual descriptors related to institutional type, location, age, or size.

> We tend to believe that practitioners arise from the challenge to design instruction so as to meet the learning needs of individual students.
>
> Since students attending two-year colleges tend to be more heterogeneous with respect to prior learning and ability, we believe that two-year college teachers are more likely to initiate individualized instruction procedures.

TABLE III

INSTITUTION LEVEL OF PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION

(Percentages)

| | Instruction Level | | | | | | | | Totals | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Develop | Coll Par | Career | Devel & Coll Par | Devel & Car | College & Career | Devel Coll & Career | Not Given | N | % |
| Type Inst. | | | | | | | | | | |
| Comp. C. Jr. | 9 | 31 | 25 | 7 | 1 | 12 | 6 | 9 | 475 | 65 |
| Tech. Coll. | 11 | 23 | 42 | 4 | 1 | 11 | 2 | 6 | 177 | 24 |
| Lib. A. Coll. | 9 | 39 | 12 | 19 | - | 9 | 2 | 9 | 43 | 6 |
| Other | 12 | 25 | 12 | 19 | 6 | 6 | 12 | 6 | 16 | 2 |
| Location | | | | | | | | | | |
| Urban | 12 | 21 | 31 | 7 | 1 | 9 | 6 | 13 | 150 | 21 |
| Suburban | 10 | 29 | 25 | 8 | 1 | 13 | 6 | 7 | 204 | 28 |
| Rural | 9 | 33 | 27 | 7 | - | 10 | 5 | 8 | 344 | 47 |
| Age Inst. | | | | | | | | | | |
| Under 5 y | 13 | 43 | 11 | 13 | 2 | 6 | 8 | 4 | 47 | 6 |
| Bet. 5 & 10 | 8 | 26 | 33 | 6 | 1 | 12 | 5 | 9 | 394 | 54 |
| Bet. 10 & 20 | 18 | 14 | 33 | 8 | - | 12 | 8 | 8 | 51 | 7 |
| Over 20 y | 10 | 36 | 21 | 8 | 1 | 10 | 5 | 9 | 222 | 31 |
| Enrollment | | | | | | | | | | |
| Bet. 1500-4000 | 8 | 30 | 28 | 7 | 1 | 11 | 6 | 9 | 622 | 86 |
| Over 4000 | 13 | 23 | 29 | 6 | 1 | 11 | 5 | 11 | 104 | 14 |
| Totals: N | 70 | 212 | 205 | 51 | 4 | 81 | 42 | 61 | 726 | 100 |
| % | 10 | 29 | 28 | 7 | 1 | 11 | 6 | 8 | 100 | |

TABLE IV

TEACHING EXPERIENCE OF PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION

(Row Percentages)

| | Teaching Experience | | | | | Totals | |
|---|---|---|---|---|---|---|---|
| | Under 2 | Bet. 2-5 | Bet. 5-10 | Over 10 | Not Given | N | % |
| Type Inst. | | | | | | | |
| Comp. C. Jr. | 7 | 23 | 41 | 28 | 2 | 475 | 65 |
| Tech. Coll. | 15 | 32 | 41 | 8 | 3 | 177 | 24 |
| Lib. A. Coll. | 7 | 16 | 35 | 42 | - | 43 | 6 |
| Other | 6 | 25 | 50 | 19 | - | 16 | 2 |
| Location | | | | | | | |
| Urban | 10 | 25 | 40 | 23 | 2 | 150 | 21 |
| Suburban | 6 | 22 | 45 | 26 | 1 | 204 | 28 |
| Rural | 10 | 27 | 38 | 22 | 3 | 344 | 47 |
| Age Inst. | | | | | | | |
| Under 5 y | 13 | 45 | 28 | 11 | 4 | 47 | 6 |
| Bet. 5 & 10 | 10 | 28 | 44 | 18 | - | 394 | 54 |
| Bet. 10 & 20 | 4 | 23 | 55 | 16 | 2 | 51 | 7 |
| Over 20 y | 8 | 16 | 33 | 39 | 4 | 222 | 31 |
| Enrollment | | | | | | | 86 |
| Bet. 1500-4000 | 9 | 27 | 40 | 22 | 2 | 622 | 14 |
| Over 4000 | 5 | 15 | 42 | 36 | - | 104 | 100 |
| Totals: N | 63 | 182 | 292 | 175 | 14 | 726 | |
| % | 9 | 25 | 40 | 24 | 2 | 100 | |

If the above is true we can predict that the trend toward some form of individualized instruction will continue as the student population becomes more heterogeneous with respect to academic background, age, employment, home background, aptitude, readiness, etc.

Format, Pace and Achievement Measurement of Individualized Instruction

Tables V, VI, and VII are used to record information regarding the format, pace, and type of achievement measurements used by practitioners of individualized instruction by college type, location, age, and size. Some practitioners in nearly all institutional descriptions used all fourteen formats. A personalized format was checked by nearly sixty-two percent of the practitioners, and the Keller method was checked by only three percent of the practitioners. Overall laboratory (52%), audio visual (49%), programmed (39%), audio tutorial (37%), packaged (37%), prescribed (33%), and project (31%) formats were most frequently reported by practitioners. Few practitioners reported use of computer (4%) or Keller (3%) formats.

Technical college practitioners tend to prefer laboratory, packaged, personalized, audio-visual, prescribed or project formats...or combinations of these formats. Liberal arts teachers frequently select a personalized (63%) format, but avoid video, Keller and/or computer format(s). Institutional descriptors of location, age, and size do not appear to be related to format selection except...suburban college practitioners less frequently select a packaged format, and practitioners from colleges between ten and twenty years old more frequently select an auto tutorial format.

Most practitioners (Table VI) use self pacing (66%) and few use a fixed pace (11%) for individualized instruction. About forty-three percent of the practitioners use achievement pacing, twenty percent teacher pacing, and fifteen percent class pacing. It is interesting to note that technical college teachers select self (80%) and/or achievement (55%) pacing most frequently.

TABLE V

INSTRUCTIONAL FORMAT* USED BY PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION

(Row Percentages)

| | Audio Tutor | Auto Tutor | Pro. | Cont | Kell | Lab | Pkg | Pers | Proj | A.V. | Video | Comp | Libr | Pres | Other | Totals N | Totals % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Type Inst. | | | | | | | | | | | | | | | | | |
| Comp. C. Jr. | 41 | 24 | 43 | 21 | 5 | 49 | 28 | 58 | 27 | 45 | 21 | 5 | 25 | 26 | 20 | 475 | 65 |
| Tech. Coll. | 28 | 15 | 32 | 9 | - | 65 | 71 | 70 | 46 | 67 | 16 | 2 | 16 | 52 | 16 | 177 | 24 |
| Lib. A. Coll. | 26 | 12 | 30 | 16 | 2 | 37 | 12 | 65 | 33 | 23 | 2 | 1 | 16 | 21 | 12 | 43 | 6 |
| Other | 37 | 19 | 44 | 12 | 6 | 37 | 37 | 56 | 12 | 62 | 6 | 12 | 25 | 37 | 6 | 16 | 2 |
| Location | | | | | | | | | | | | | | | | | |
| Urban | 43 | 29 | 49 | 17 | 1 | 51 | 46 | 58 | 24 | 48 | 21 | 3 | 25 | 31 | 21 | 150 | 21 |
| Suburban | 39 | 20 | 44 | 23 | 6 | 49 | 26 | 53 | 24 | 42 | 19 | 6 | 24 | 26 | 22 | 204 | 28 |
| Rural | 34 | 18 | 33 | 15 | 2 | 54 | 41 | 69 | 37 | 55 | 17 | 3 | 20 | 37 | 15 | 344 | 47 |
| Age Inst. | | | | | | | | | | | | | | | | | |
| Under 5 y | 34 | 15 | 45 | 21 | 8 | 40 | 25 | 64 | 19 | 36 | 11 | 2 | 17 | 25 | 25 | 47 | 6 |
| Bet. 5 & 10 | 35 | 23 | 37 | 19 | 4 | 56 | 40 | 67 | 39 | 58 | 19 | 5 | 25 | 38 | 16 | 394 | 54 |
| Bet. 10 & 20 | 29 | 33 | 49 | 14 | - | 59 | 59 | 55 | 20 | 55 | 25 | 6 | 25 | 27 | 22 | 51 | 7 |
| Over 20 y | 43 | 17 | 40 | 17 | 2 | 46 | 31 | 53 | 21 | 36 | 17 | 3 | 19 | 25 | 20 | 222 | 31 |
| Enrollment | | | | | | | | | | | | | | | | | |
| Bet. 1500-4000 | 36 | 20 | 39 | 17 | 3 | 53 | 39 | 63 | 32 | 52 | 17 | 3 | 24 | 33 | 18 | 622 | 86 |
| Over 4000 | 40 | 25 | 41 | 25 | 5 | 45 | 26 | 55 | 26 | 36 | 29 | 9 | 17 | 28 | 22 | 104 | 14 |
| Totals: N | 266 | 151 | 286 | 131 | 25 | 380 | 271 | 447 | 226 | 359 | 135 | 29 | 165 | 237 | 135 | 726 | 100 |
| % | 37 | 21 | 39 | 18 | 3 | 52 | 37 | 62 | 31 | 49 | 19 | 4 | 23 | 33 | 19 | 100 | |

*Terms used to indicate type of instructional format are defined in a brief glossary on page 24 at the conclusion of this paper.

TABLE VI

PACE USED BY PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION

(Percentages)

| | Pace of Instruction | | | | | | Totals | |
|---|---|---|---|---|---|---|---|---|
| | Self | Fixed | Class | Teacher | Achievement | Other | N | % |
| Type Inst. | | | | | | | | |
| Comp. C. Jr. | 62 | 12 | 18 | 23 | 40 | 16 | 475 | 65 |
| Tech. Coll. | 80 | 7 | 4 | 10 | 55 | 10 | 177 | 24 |
| Lib. A. Coll. | 63 | 12 | 19 | 14 | 21 | 14 | 43 | 6 |
| Other | 69 | 6 | 6 | 6 | 31 | 12 | 16 | 2 |
| Location | | | | | | | | |
| Urban | 63 | 9 | 13 | 22 | 45 | 14 | 150 | 21 |
| Suburban | 67 | 10 | 13 | 19 | 36 | 16 | 204 | 28 |
| Rural | 69 | 11 | 16 | 17 | 47 | 12 | 344 | 47 |
| Age Inst. | | | | | | | | |
| Under 5 y | 64 | 15 | 13 | 25 | 51 | 13 | 47 | 6 |
| Bet. 5 & 10 | 71 | 9 | 14 | 15 | 45 | 11 | 394 | 54 |
| Bet. 10 & 20 | 75 | 12 | 4 | 16 | 41 | 23 | 51 | 7 |
| Over 20 y | 60 | 11 | 17 | 26 | 36 | 18 | 222 | 31 |
| Enrollment | | | | | | | | |
| Bet. 1500-4000 | 66 | 11 | 16 | 20 | 43 | 14 | 622 | 86 |
| Over 4000 | 67 | 8 | 11 | 22 | 39 | 16 | 104 | 14 |
| Totals: N | 479 | 77 | 110 | 145 | 310 | 103 | 726 | 100 |
| % | 66 | 11 | 15 | 20 | 43 | 14 | 100 | |

TABLE VII

ACHIEVEMENT MEASURES USED BY PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION

(Row Percentages)

| | Criterion | Norm | Individ | Other | Not Given | Totals N | Totals % |
|---|---|---|---|---|---|---|---|
| Type Inst. | | | | | | | |
| Comp. C. Jr. | 55 | 16 | 44 | 13 | 3 | 475 | 65 |
| Tech. Coll. | 71 | 10 | 27 | 6 | 3 | 177 | 24 |
| Lib. A. Coll. | 42 | 16 | 42 | 7 | 5 | 43 | 6 |
| Other | 50 | 19 | 50 | 6 | 6 | 16 | 2 |
| Location | | | | | | | |
| Urban | 61 | 11 | 41 | 6 | 3 | 150 | 21 |
| Suburban | 58 | 17 | 43 | 12 | 3 | 204 | 28 |
| Rural | 56 | 14 | 38 | 11 | 4 | 344 | 47 |
| Age Inst. | | | | | | | |
| Under 5 y | 47 | 19 | 53 | 17 | - | 47 | 6 |
| Bet. 5 & 10 | 61 | 14 | 39 | 10 | 4 | 394 | 54 |
| Bet. 10 & 20 | 67 | 6 | 33 | 6 | 6 | 51 | 7 |
| Over 20 y | 53 | 6 | 40 | 12 | 4 | 222 | 31 |
| Enrollment | | | | | | | |
| Bet. 1500-4000 | 58 | 16 | 39 | 10 | 3 | 622 | 86 |
| Over 4000 | 58 | 9 | 42 | 10 | 6 | 104 | 14 |
| Totals: N | 418 | 109 | 288 | 75 | 28 | 726 | 100 |
| % | 58 | 15 | 40 | 10 | 4 | 100 | |

Criterion (58%) and/or individual (40%) achievement measures are preferred by most practitioners (Table VII). Normative evaluation is checked by only fifteen percent of the practitioners. Seventy-one percent of the technical college practitioners select criterion measures compared to forty-two percent of the practitioners from liberal arts colleges.

> The researchers observe that practitioners seem to be quite alike with respect to selection of format, pace, and achievement measures. Apparently the procedural description of format, pace and achievement measures for individualized instruction are not strongly related to institutional descriptions of type, location, age or size. Practitioners apparently select procedures rather pragmatically...because they work for them under the conditions surrounding their institutional situation.

Evaluation of Individualized Instruction

Few practitioners have completed any evaluation of their individualized instruction procedures. Table VIII data indicates that only seven percent have completed any research, fifteen percent a survey, and fifty-eight percent have not completed any systematic evaluation. Many practitioners express an interest in evaluating the practice of individualized instruction and most of these are willing to share the results of their experience. Some kind of evaluation seems to have been used by about forty-seven percent of the practitioners in comprehensive community colleges, about fifty-two percent of the practitioners in urban colleges, and forty-nine percent of the practitioners in the larger two-year colleges.

> The researchers were not surprised by the relatively small number of practitioners reporting any evaluation of individualized instructional procedures. Indeed our contact with these practitioners suggests that these teachers are so busily engaged in developing materials, working with students, and improving techniques that evaluation is crowded out. The researchers also note that most practitioners tend to be rather modest individuals and that they are hesitant to share a practice which is not perfected. This lack of evaluation is unfortunate in that the practice appears to have many appealing attributes.

TABLE VIII

EVALUATION BY PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION

(Row Percentages)

| | Status of Evaluation | | | | | | Totals | |
|---|---|---|---|---|---|---|---|---|
| | Research Completed | Survey Completed | No Evaluation Completed | Other Evaluation | Share Results | Negative Response | N | % |
| Type Inst. | | | | | | | | |
| Comp. C. Jr. | 9 | 17 | 53 | 21 | 38 | 10 | 475 | 65 |
| Tech. Coll. | 4 | 10 | 67 | 19 | 21 | 7 | 177 | 24 |
| Lib. A. Coll. | 5 | 12 | 74 | 9 | 28 | 7 | 43 | 6 |
| Other | 6 | 6 | 75 | 6 | 12 | 12 | 16 | 2 |
| Location | | | | | | | | |
| Urban | 7 | 13 | 48 | 23 | 27 | 13 | 150 | 21 |
| Suburban | 11 | 15 | 57 | 16 | 38 | 9 | 204 | 28 |
| Rural | 5 | 15 | 64 | 20 | 32 | 8 | 344 | 47 |
| Age Inst. | | | | | | | | |
| Under 5 y | 4 | 17 | 66 | 32 | 43 | 4 | 47 | 6 |
| Bet. 5 & 10 | 8 | 13 | 60 | 16 | 29 | 11 | 394 | 54 |
| Bet. 10 & 20 | 8 | 6 | 55 | 39 | 47 | 8 | 51 | 7 |
| Over 20 y | 7 | 19 | 54 | 19 | 34 | 8 | 222 | 31 |
| Enrollment | | | | | | | | |
| Bet. 1500-4000 | 7 | 15 | 59 | 19 | 32 | 10 | 622 | 86 |
| Over 4000 | 8 | 11 | 51 | 26 | 35 | 8 | 104 | 14 |
| Totals: N | 54 | 106 | 421 | 143 | 236 | 69 | 726 | 100 |
| % | 7 | 15 | 58 | 20 | 32 | 9 | 100 | |

Practitioners Motivation to Use Individualized Instruction

As displayed in Table IX practitioners are frequently self-motivated to use individualized instruction. Most indicate that personal experience (65%) served as a prime motivation to use individualized instruction. Contact with innovative teachers (32%) and/or administrative emphasis (34%)were also cited as reasons for using individualized instruction. Technical college teachers indicate administrator (56%) emphasis more frequently than personal experience (43%). Practitioners from colleges less than 5 years old report personal experience (85%) more often than administrative emphasis (13%).

Response to the questions regarding motivation lead the researchers to observe that the decision to use individualized instruction is usually an individual decision. It is true that many administrators are advocates of individualized instruction. It is also true that several organizations, some university teachers and some roaming consultants sell the merits of individualized instruction.

> However, based on the respondents in this study we observe again that the practice of individualized instruction seems to grow from the innate desires of the individual teacher to cause more students to learn more of what he (she) has to teach.

Practitioners' Opinions about Individualized Instruction

Table X is used to record the responses of practitioners with respect to questions regarding cost-effectiveness, student achievement, student preference, teacher threat, and future use of individualized instruction. Overall, practitioners report that individualized instruction, compared to other instruction, is more cost-effective (2:1), increases student achievement (26:1), is preferred by students (10:1), is not threatening to teachers (4:1), and will increase in use (27:1)...A pretty strong endorsement of the practice.

Teachers from technical colleges are more likely to cite increased cost-effectiveness (4:1), lower teacher threat (6:1), and probable increased use (88:1). Liberal arts college teachers are evenly split on the cost-effectiveness question.

TABLE IX

MOTIVATION OF PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION

(Row Percentages)

| | Motivation to Use | | | | Totals | |
|---|---|---|---|---|---|---|
| | Personal Experience | Contact | Administrative | Not Given | N | % |
| Type Inst. | | | | | | |
| Comp. C. Jr. | 73 | 36 | 28 | 4 | 475 | 65 |
| Tech. Coll. | 43 | 23 | 56 | 5 | 177 | 24 |
| Lib. A. Coll. | 77 | 39 | 23 | - | 43 | 6 |
| Other | 62 | 31 | 25 | - | 16 | 2 |
| Location | | | | | | |
| Urban | 65 | 35 | 42 | 5 | 150 | 21 |
| Suburban | 71 | 33 | 26 | 3 | 204 | 28 |
| Rural | 62 | 31 | 37 | 4 | 344 | 47 |
| Age Inst. | | | | | | |
| Under 5 y | 85 | 36 | 13 | - | 47 | 6 |
| Bet. 5 & 10 | 59 | 29 | 38 | 5 | 394 | 54 |
| Bet. 10 & 20 | 63 | 39 | 29 | 8 | 51 | 7 |
| Over 20 y | 14 | 38 | 35 | 3 | 222 | 31 |
| Enrollment | | | | | | |
| Bet. 1500-4000 | 65 | 31 | 34 | 4 | 622 | 86 |
| Over 4000 | 66 | 40 | 34 | 8 | 104 | 14 |
| Totals: N | 475 | 235 | 247 | 34 | 726 | 100 |
| % | 65 | 32 | 34 | 5 | 100 | |

TABLE X

OPINION OF PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION

(Row Percentages)

| | Cost-Effectiveness | | Student Achievement | | Student Preference | | Teacher Threat | | Future Use | | Totals | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | More | Less | Inc. | Dec. | Pref. | N.Pref. | Thr. | N.Thr. | Inc. | Dec. | N | % |
| **Type Inst.** | | | | | | | | | | | | |
| Comp. C. Jr. | 49 | 26 | 84 | 3 | 71 | 6 | 18 | 66 | 79 | 4 | 475 | 65 |
| Tech. Coll. | 65 | 16 | 84 | 2 | 81 | 5 | 12 | 69 | 88 | 1 | 177 | 24 |
| Lib. A. Coll. | 30 | 30 | 86 | 4 | 79 | 9 | 14 | 84 | 72 | 2 | 43 | 6 |
| **Location** | | | | | | | | | | | | |
| Urban | 51 | 17 | 83 | 1 | 73 | 8 | 19 | 57 | 82 | 2 | 150 | 21 |
| Suburban | 44 | 29 | 82 | 3 | 69 | 6 | 21 | 64 | 77 | 5 | 204 | 28 |
| Rural | 57 | 22 | 85 | 3 | 78 | 5 | 12 | 74 | 83 | 2 | 344 | 47 |
| **Age Inst.** | | | | | | | | | | | | |
| Under 5 y | 38 | 25 | 91 | - | 79 | 4 | 6 | 83 | 85 | 4 | 47 | 6 |
| Bet. 5 & 10 | 55 | 23 | 85 | 3 | 76 | 6 | 15 | 69 | 81 | 3 | 384 | 54 |
| Bet. 10 & 20 | 61 | 18 | 78 | 4 | 67 | 8 | 18 | 59 | 80 | 6 | 51 | 7 |
| Over 20 y | 49 | 23 | 81 | 2 | 73 | 5 | 19 | 64 | 81 | 2 | 222 | 31 |
| **Enrollment** | | | | | | | | | | | | |
| Bet. 1500-4000 | 53 | 24 | 84 | 3 | 75 | 6 | 15 | 69 | 82 | 3 | 622 | 86 |
| Over 4000 | 46 | 20 | 79 | 4 | 69 | 10 | 18 | 61 | 71 | 8 | 104 | 14 |
| Totals: N | 378 | 168 | 608 | 23 | 537 | 48 | 114 | 492 | 587 | 25 | 726 | 100 |
| % | 52 | 23 | 84 | 3 | 74 | 7 | 16 | 68 | 81 | 3 | 100 | |

The opinions expressed by teachers using individualized instruction constitute overwhelming support for the practice. These opinions also provide a rich source for future research. The cost-effectiveness question has been rather extensively researched by Berchin (11) in a national study supported by Harold S. Sloan and the League for Innovation in the Community College. Berchin's study generally supports the conclusion that the cost-effectiveness of individualized instruction is greater than the cost-effectiveness of most other types of college instruction.

Student achievement, however measured, also lends itself to much future research. The interaction between format, pacing, and other conditions needs to be carefully investigated with respect to achievement. A study completed by the senior researcher (4) indicates a strong interaction between scholastic ability and criterion evaluation of achievement.

Student preference and potential teacher threat aspects of a new technique, such as individualized instruction, should also provide future researchers with an appropriate challenge. We note that students tend to support their teachers and that innovative teachers are seldom threatened by self-initiated change. Perhaps researchers need to investigate preference and/or threat in terms of group dynamics, governance situations, communication flow, intrinsic and extrinsic rewards, etc.

If the increased use of individualized instruction is related to internal forces such as the heterogeneity of students and learner needs, the practice will undoubtedly continue to grow. However, if the growth of the practice is related to some external forces, such as fashion, or administrator emphasis, the practice will eventually give way to some other idea.

The writers believe that the practice of individualized instruction is supported by internal forces which will tend to increase during the next several years.

We also believe that the practice is supported by some rather powerful psychological arguments.

As teachers become more familiar with the role of "manager of a learning system" the practice will undoubtedly continue to grow. The managerial role removes the teacher from the center of attention and may, thus, tend to slow the growth of individualized instruction. On the other hand, the teacher's managerial role automatically places the course objectives as the prime hurdle for the learner and the teacher becomes an advisor, motivator, and ultimate source of help for the learner to achieve the course requirements.

We believe that individualized instruction in all its forms constitutes a powerful practice that will continue to grow because its time has come.

## SUMMARY AND CONCLUSIONS

It is always difficult in an open-ended study to derive much in the way of "conclusions". Much of the value of such a study, we believe, lies in the presentation of percentage data which may arouse more specific research interests in the reader relating to individualized instructional practices.*

Several questions seemed to be rather specifically answered in this study. The simple fact of 1000 practitioner responses from 140 community-junior colleges representing all 19 states surveyed seems to clearly answer the question regarding the status of individualized instruction in community-junior colleges identified as members of the Council of North Central Association. Individualized instruction, in all types of two-year colleges, public and private, is alive and seems to be doing fairly well!

Although the researchers' hope of identifying profile characteristics of

*And, conversely, one of the problems associated with such a study has to do with what data to include and what to leave out...obviously, much of the data collected has not been presented in this report.

institutions wherein individualized instruction seems to thrive, or profile characteristics of practitioners which would tend to distinguish them from the average community-junior college teacher, were not realized, the survey forms themselves consistently provided an answer to another question...what is the most common factor associated with practitioners of individualized instruction in all disciplines in all types of institutions? The answer...they are extremely busy people who spend an inordinate amount of time with their students.

Although few of them seemed familiar with the terminology prevalent in the literature and used in the survey to identify particular types of individualized formats, paces, evaluation procedures, etc., most were able to describe quite succinctly what they are doing, why they are doing it, and how well they think it works. Most indicated that they were so busy dealing with students and their learning problems that they did not have time to formally evaluate their instructional procedures.

Finally, a few of the respondents wrote marginal notes on the survey forms expressing their skepticism about the possible benefits of such a study... they seemed to feel that if the researchers were not going to be able to capture a realistic understanding of the tremendous time commitment to students associated with individualized instructional approaches as a result of the survey, all of the questions relating to characteristics of teachers and/or their particular individualized approach would be about as valuable as a quote taken out of context. We hope that they will have an opportunity to read this summary and see that their concerns were not ignored!

## Glossary

For the purposes of this report the writers have developed a glossary so as to clarify the use of terms related to individualized instruction.

Individualized Instruction - Any practice which provides one or more of the following: individual learning activities and/or individual pacing of instruction and/or individual evaluation of learner achievement.

Audio tutorial - A method of individualized instruction which uses an audio message as a main element of instruction along with other learning activities.

Auto tutorial - A method of individualized instruction which leads the student through a series of learning activities which may include audio, visual, work book, lab activities, etc.

Programmed - A method of individualized instruction which leads the student to interact with a series of stimuli, each requiring an active response.

Contract - A method of individualized instruction which is based on a learning contract developed cooperatively between a student and a teacher...the contract usually specifies outcomes, activities, evaluation, and time for completion.

Keller - A method of individualized instruction developed by Fred Keller, a psychologist...the method uses student tutors as well as other learning activities.

Laboratory - A method of individualized instruction which uses a learning laboratory to provide appropriate learning activities.

Packaged - A method of individualized instruction which gathers all the learning materials into a carefully designed stand-alone package.

Personalized - A method of individualized instruction which is based on face-to-face interaction between the teacher and student related to learning outcomes, activities, and evaluation.

Project - A method of individualized instruction which requires the learner to complete a project.

Audio-Visual - A method of individualized instruction which uses A.V. (usually tape-slide or tape filmstrip) sequences for specified learning.

Video - A method of individualized instruction which provides learner access to video sequences for specified learning.

Computer - A method of individualized instruction which uses a computer system as an interactive programmed instruction or as a mediator of the learning process or in a computational format.

Library - A method of individualized instruction which uses a central library as a prime source for learning specified outcomes.

Prescribed - A method of individualized instruction which requires the teacher to prescribe appropriate learning activities based on diagnosis of the learner.

Self Pacing - Learning rates determined by the learner.

Fixed Pacing - Learning rate determined by the course requirements.

Class Pacing - Learning rate determined by progress of the class as a whole.

Teacher Pacing - Learning rate determined by the teacher.

Achievement Pacing - Learning rate determined by learner achievement.

Criterion Measures - Achievement level, conditions, and extent preset by the course objectives.

Individual Measures - Achievement level, conditions, and extent set for each individual learner.

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APPENDIX A

ARIZONA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Mrs. Jacqueline Schliefer | Office Educ. | Audio-tutorial, Programmed, Lab, Packaged, Audio-visual | Mohave Comm. Coll. | Kingman, AZ |
| John Leamy | Math | Programmed, Personalized | " " " | " " |
| Robert Abbott | Ind. Elect. | Programmed, Project, Personalized | " " " | " " |
| Phyllis Steinmann | Math | Peer teaching | Scottsdale Comm. Coll. | Scottsdale, AZ |
| Roger Slater | Reading | Audio-tutorial, Auto-tutorial, Audio-visual, Laboratory | " " " | " " |
| Doris Lueck | Adult Ed-minor Hospital Educ. Nursing | Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Packaged, Personalized, Audio-visual, Video, Library, Prescribed, Group Dynamics, Role playing, some Lecture, Learning exper. primary | " " " | " " |
| Dr. Robert C. Gray | Biology | Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Personalized, Audio-visual, Library | " " " | " " |
| Anne Shindler | Business Educ. | Audio-tutorial, Auto-tutorial, Programmed, Contract, Laboratory, Packages, Personalized, Audio-visual, Prescribed | Phoenix College | Phoenix, AZ |

ARIZONA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Martha Phillips | Business Educ. | Audio-tutorial | Phoenix College | Phoenix, AZ |
| Pete Pisciotta | Math | Audio-tutorial, Personalized, Prescribed | Glendale Comm. Coll. | Glendale, AZ |
| -- | Accounting | Audio-tutorial,Packaged, Personalized,Audio-visual, Library | Mesa Community Coll. | Mesa, AZ |
| Andree J. Messali | Languages | Audio-tutorial,Programmed, Lab,Computer | " " " | " " |
| Betty Gozesky | Music | Audio-tutorial,Lab, Audio-visual,Video | " " " | " " |
| Lucille Groenke (Mrs.) | Math | Audio-tutorial,Programmed, Modified Keller,Personalized, Audio-visual,Video, Computer, Library, Prescribed | " " " | " " |
| Richard Snider | Drama/Humanities | Audio-tutorial,Programmed, Packaged,Audio-visual, Library | Pima College | Tucson, AZ |
| Patricia Hurly | Physics | Audio-visual,Computer Student Contracts | " " | " " |
| Charles Camp | Electronics | Programmed | " " | " " |
| -- | Elec./Math | Programmed,Contract | " " | " " |
| James E. Sherman | Engineering | Keller | " " | " " |
| James P. Wesselmann | Math/Engr. | Self-instruction | " " | " " |

ARIZONA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Norbett Pittner | Math/Computer Sci. | Contract,Lab,Computer | Pima College | Tucson, AZ |
| Larry J. Solomon | Music | Audio-tutorial,Programmed,Lab,Personalized, Audio-visual | " " | " " |
| Sharon Welch | Office Education | Audio-visual | " " | " " |
| Dr. Laurence J. Victor | Psych/Physics | Personalized Individualized Objectives | " " | " " |
| Chrrles Fletcher | Air Cond Tech | Programmed,Lab, Packaged,Project,Audio-visual,Library | " " | " " |
| Emily Preskar | Computer Sci | Audio-tutorial,Programmed,Lab,Personalized, Computer | " " | " " |
| Carmelita Anson | Reading/English | Audio-tutorial,Programmed,Lab,Personalized,Audio-vidual,Prescribed | " " | " " |
| Francis J. Scheuring | Accounting | Personalized,Audio-visual | " " | " " |
| Mary Macon | Bus/Office Educ | Audio-tutorial,Programmed,Lab,Packaged,Personalized, Project,Audio-visual,Library, Prescribed | " " | " " |
| Jay Spillman | Auto Tech | Audio-tutorial,Lab, Personalized,Prescribed | " " | " " |
| Anthoney Guglielmino | Aviation Mech/Metallurgy | Audio-visual,Prescribed | " " | " " |

## ARIZONA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Marvin Mandell | Drafting/Electronics | Programmed,Lab, Personalized,Audio-visual | Pima College | Tucson, AZ |
| Jess R. Lara | Education/Fine Arts | Work experience, Personalized,Student/ Supervisor Conferences | " " | " " |
| James C. Mick | Machine Shop Tech | Lab,Project,Audio-visual,Prescribed | " " | " " |
| A.K. Krieg | Auto Tech | Programmed,Project | " " | " " |

## ARKANSAS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Joy Ring | Business | Contract, Laboratory, Packages, Personalized, Prescribed | Southern Baptist Coll. | Walnut Ridge, AR |
| Elouise Scott | Educ.,English, Dev. St. | Autio-tutorial, Auto-tutorial, Programmed, Contract, Laboratory, Packaged, Personalized, Audio-visual, Prescribed | Arkansas State Univ. | Beebe, AR |
| Jerry D. Pugsley | Speech/Drama | Personalized, Project, Audio-visual, Library, Prescribed | Phillips County Comm. Coll. | Helena, AR |
| Dorothy Trauman | Nursing | Audio-tutorial, Auto-tutorial, Laboratory, Personalized, Project, Audio-visual, Library, Prescribed | " " " " " " | |
| Mary King | Nursing | Audio-tutorial, Auto-tutorial, Laboratory, Personalized, Project, Audio-visual, Library, Prescribed | " " " " " " | |
| Candace Krugh | Nursing | Audio-tutorial, Library, Audio-visual,Personalized | " " " " " " | |
| Louis F. Ruman | Social Science | Contract | " " " " " " | |

## COLORADO

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Ethel Sanders | English/Math/ Reading | Programmed, Visual, Personalized | Colorado N.W. Comm.Coll. | Rangely, CO |
| Kathy Halverson | Secretarial Science | Audio-tutorial, Packaged, Personalized | " " " " | " " |
| James Sanders | Business Admin. | Programmed, Personalized | " " " " | " " |
| Phyllis Chowdhry | Chemistry, Biology | Keller | " " " " | " " |
| Edwin Ray | Chemistry/Math | Auto-tutorial, Project, Laboratory, Audio-visual, Personalized | Morgan Community College | Fort Morgan, CO |
| Darrell D. Cruea | Veterinary Physlgy. | Auto-tutorial, Keller, Laboratory, Project, Personalized | " " " | " " " |
| Carolyn Thornsby | GED-Learning Lab | Audio-tutorial, Auto-tutorial, Programmed, Contract, Laboratory, Packaged, Personalized, Audio-visual, Prescribed | " " " | " " " |
| Jean Danford | English | Contract | " " " | " " " |
| Chris Sullivan | Business Educ. | Contract, Auto-tutorial, Programmed, Personalized | " " " | " " " |
| Max Karl Winkler | Art, Art History | Audio-tutorial, Auto-tutorial, Programmed, Contract, Laboratory, Packaged, Personalized, Project, Audio-visual, Video, Library | Colorado Mountain College | Glenwood Springs, CO |

COLORADO

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| -- | Biology, Geology, Botany | Laboratory, Personalized, Project, Audio-visual, Video | -- | -- |
| J. K. Snobble | Geography/Geology Physical Activities | Personalized, Project, Audio-visual | Colorado Mountain Coll. | Glenwood Springs, CO |
| Theodore Magnuson | Photography | Programmed, Contract, Laboratory, Packaged, Personalized, Project, Audio-visual, Library, Prescribed | " | " |
| Thad J. Englert | Physics, Math | Laboratory, Personalized, Computer | " | " |
| Dr. Michelle Baker | Biology | Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Packaged, Personalized, Project, Audio-visual | " | " |
| Paul Stepheny | Reading, Study Skills, Composition | Auto-tutorial, Laboratory, Personalized, Audio-visual | " | " |
| Peter Marshall | Theatre/Acting | Contract, Laboratory, Personalized, Project, Library, Prescribed | " | " |
| -- | English | Audio-tutorial, Contract Audio-visual | -- | -- |
| -- | Recreation-Educ. | Auto-tutorial, Programmed, Laboratory, Video, Audio-visual | -- | -- |

## COLORADO

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Melody Whitehouse | Composition | Personalized | Colorado Mountain Coll. | Glenwood Springs, CO |
| -- | Secretarial Science | Personalized | " " " | " " " |
| Clay Boland | English | Personalized | " " " | " " " |
| Kelly Rae Hearn | Group Dynamic Educ. | Audio-tutorial, Auto-tutorial, Programmed, Contract, Packaged, Personalized, Project, Audio-visual, Video, Library, Prescribed | " " " | " " " |
| Arnold E. Dollase | Sociology, Govt. Ethnic Studies, Geog. | Programmed, Project, Audio-vidual | " " " | " " " |
| Bob Whitehouse | Psych., Rehab. Counseling | Contract, Project, Personalized, Audio-visual | " " " | " " " |
| -- | Vocational | Programmed, Contract, Laboratory, Project, Personalized, Library | -- | -- |
| S. R. Vanderhurst | Veterinary Medicine | Auto-tutorial, Contract, Laboratory, Project, Audio-visual | Colorado Mountain Coll. | Glenwood Springs, CO |
| Robert Yust | Com. Art-ArtEduc. | Programmed, Laboratory, Personalized, Project | " " " | " " " |
| -- | Electronics | Laboratory, Project, Personalized | -- | -- |

## COLORADO

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Susan Cribelli | GED Adult Basic Educ. | Audio-tutorial, Programmed, Packaged, Personalized, Audio-visual, Library, Prescribed | Aims Community College | Greeley, CO |
| Gerald L. Karst | Educ./Sociology | Auto-tutorial Personalized | " " " | " " |
| Sheri Linnell | Science | Personalized | " " " | " " |
| Art Giesick | Engineering | Laboratory, Project, Personalized, Audio-visual, Prescribed | " " " | " " |
| Ms. Esther Sims | Journalism | Audio-tutorial, Programmed, Laboratory, Personalized, Audio-visual | " " " | " " |
| William L. Shell | Political Science | Personalized, Prescribed | " " " | " " |
| Chris Sheats, Jr. | Chemistry/Math | Audio-tutorial, Programmed, Laboratory, Personalized, Video, Computer | " " | " " |
| Barbara G. Crenshaw | Mental Health | Auto-tutorial,Contract | Community College of Denver | Denver, CO |
| Ruth M. Harboe | Nursing | Audio-tutorial, Auto-tutorial, Programmed, Contract, Laboratory, Packaged, Audio-visual, Library, Prescribed | " " " " | " " |
| Sue Watkins | Nursing | Auto-tutorial,Programmed, Contract, Laboratory, Personalized, Audio-visual, Video, Library, Prescribed | " " " | " " |

COLORADO

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Bridell West | Nursing | Audio-tutorial, Auto-tutorial, Programmed, Packaged, Library | Community College of Denver | Denver, CO |
| Thomas M. Vogl | Radiologic Tech. | Programmed, Packaged, Personalized, Audio-visual | " | " |
| Audrey Jones | Nursing | Programmed, Prescribed | " | " |
| -- | Phys. Ed. | Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Project, Audio-visual, Library | " | " |
| Alma Mueller | Nursing | Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Audio-visual, Video | " | " |
| Cris Edwards | Dental Asstng. | Audio-tutorial, Auto-tutorial, Programmed, Contract, Laboratory, Packaged, Personalized, Project, Audio-visual, Video, Library, Prescribed | " | " |
| Julie Nujills | Dental Asstng. | Programmed, Contract, Laboratory, Project, Audio-visual, Library | " | " |
| Gary J. Walker | Food Management | Laboratory, Packaged, Personalized, Project, Audio-visual, Video Library | " | " |

COLORADO

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Ed Brown | Welding | Project, Audio-visual | -- | -- |
| Hugh Adams | Welding | Audio-tutorial, Contract, Laboratory, Personalized, Project, Audio-visual, Library | Community Coll. of Denver | Denver, CO |
| Roland H. Seward | Welding | Laboratory, Personalized, Audio-visual, Prescribed | " | " |
| Gerald S. Muirhead | -- | Audio-tutorial, Programmed, Laboratory, Personalized | " | " |
| M. Minamoto | Voc-Tech | Laboratory, Personalized, Project, Audio-visual, Library | " | " |
| -- | Machine Shop | Laboratory, Project, Personalized | " | " |
| Everett Moutze | Machine Shop | Laboratory, Packaged, Audio-visual, Library | " | " |
| Jacobos Semp | Machine Shop | Audio-tutorial, Auto-tutorial, Laboratory, Packaged, Project | " | " |
| G. W. Langdorf, Jr. | Electronics | Auto-tutorial, Laboratory, Packaged | " | " |
| -- | Electronics | Laboratory, Packaged, Personalized, Audio-visual | " | " |
| Wm. S. Payne | Ind. Voc.Drftng. | Programmed, Packaged, Laboratory, Project | " | " |

COLORADO

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Louis E. Bynum | Design/Drafting | Packaged, Personalized | Community Coll. of Denver | Denver, CO |
| -- | Automotive Mech. | Laboratory, Audio-visual, Personalized, Library | " " " | " " |
| Aaron Taylor | Auto Mech. | Audio-tutorial, Programmed, Packaged, Personalized, Project, Audio-visual | " " " | " " |
| -- | Auto Mech | Packaged, Personalized, Audio-visual, Prescribed | " " | " " |
| Donald E. Daffin | Auto Mech | Auto-tutorial, Laboratory, Personalized, Audio-visual | " " | " " |
| -- | Auto Mech | Audio-tutorial, Auto-tutorial, Personalized | " " | " " |
| Louis VanDyke | Social Sciences | Contract, Project, Personalized | " " " | " " |
| June B. Belker | English | Audio-tutorial, Programmed, Laboratory, Packaged, Video, Personalized, Audio-visual, Library, Prescribed | " " | " " |
| John H. Robinson | Sociology/Hist. | Programmed, Contract, Packaged, Personalized, Project, Audio-visual, Library | " " " | " " |
| Raymond Boersema | Math | Audio-tutorial, Auto-tutorial, Personalized, Audio-visual, Video, Prescribed | " " " | " " |

## COLORADO

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| James E. Hannaford | Biology | Audio-tutorial, Programmed, Contract, Keller, Personalized, Audio-visual, Prescribed | Community Coll. of Denver | Denver, CO |
| Dr. Robert A. Taylor | Inorg. Chemistry | Programmed, Personalized. Audio-visual | " | " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Douglas Genrke | Economics | Audio-tutorial Programmed, Packaged | Moraine Valley Comm.Coll. | Palos Hills, Ill. |
| Denny Freese | English | Programmed, Contract, Laboratory, Packaged, Personalized, Audio-visual, Prescribed | " | " |
| Norman Rees | Math | Auto-tutorial, Programmed, Personalized | " | " |
| -- | Math | Programmed,Personalized | " | " |
| Terry Dopp | Math | Programmed, Packaged, Personalized, Prescribed | " | " |
| Ron Hall | Math | Programmed | " | " |
| Shirley Everingham | Nursing | Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Audio-visual, Library | " | " |
| Beatrice Chiodini | Nursing | Audio-Tutorial, Auto-tutorial, Programmed, Laboratory, Audio-visual, Library | " | " |
| Karen Jean Betts | Nursing | Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Personalized, Audio-visual, Library | " | " |
| Hazel LeFevre | Nursing | Audio-tutorial, Auto-tutorial, Laboratory, Packaged, Audio-visual, Library | " | " |
| Terry J. Stanley | Occupational Educ. | Lab, Packaged | " | " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Lenette Staudinger | Biology | Programmed, Laboratory, Project | Moraine Valley Comm.Coll. | Palos Hills, Ill. |
| Carolina Gonzales | Nursing | Laboratory, Audio-visual, Personalized | " | " |
| Richard A. Fritz | Math | Audio-tutorial, Auto-tutorial, Programmed, Audio-visual | " | " |
| James F. Higgins | Math | Audio-tutorial, Programmed | " | " |
| -- | Medical Term. | Audio-tutorial, Programmed, Personalized | " | " |
| Gerri Gill | Exceptional Educ. | Contract, Project, Audio-visual | " | " |
| -- | Biology | Programmed, Laboratory, Audio-visual | " | " |
| Mr. Joseph A. Jioia | Sociology | Programmed, Packaged, Personalized, Audio-visual, Library | " | " |
| Marilyn Twining | Physical Ed | Programmed, Contract, Laboratory, Packaged, Personalized, Project, Audio-visual, Video, Library, Prescribed | " | " |
| Thomas J. McCague | Anat/Physiology | Audio-tutorial, Programmed, Contract, Laboratory, Audio-visual, Library, Prescribed | " | " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| -- | Nursing | Audio-tutorial, Auto-tutorial, Personalized, Audio-visual | Moraine Valley Comm. Coll. | Palos Hills, Ill. |
| Robert K. Dugan | Industr. Tech. | Audio-tutorial, Contract, Laboratory, Personalized, Project | " | " |
| John P. Gallagher | Geography | Audio-tutorial, Auto-tutorial, Programmed, Contract, Packaged, Personalized, Project, Audio-visual, Video, Computer, Library, Prescribed | " | " |
| James F. Adduci | Political Sci. | Auto-tutorial, Packaged," Audio-visual | " | " |
| Ronald Svara | Math | Audio-tutorial, Programmed, Laboratory, Packaged, Audio-visual, Video, Computer | " | " |
| Dr. Paul Lawrisuk | Interm. Algebra | Audio-tutorial, Laboratory, Personalized, Video | " | " |
| Joanna Kirvaitis | Biochemistry | Laboratory, Personalized, Prescribed | " | " |
| Edmund Vasiliauskas | Chemistry | Audio-visual,Videotape | " | " |
| James Scheer | Elect.Tech. | Programmed, Contract, Laboratory, Personalized, Project, Library | " | " |
| Louann Tiervan | Speech/Germ Lit | Contract, Laboratory, Packaged, Project, Audio-visual, Library | " | " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| -- | English/Lit | Auto-tutorial, Laboratory, Personalized | McHenry County College | Crustal Lake, Ill. |
| Walter G. Gerth | Social Studies/Reading | Programmed, Personalized, Audio-visual | " " " | " " " |
| Karen L. Schwitters | Math | Programmed, Personalized | " " " | " " " |
| Charles O. Ham, Jr. | Linguistics | Auto-tutorial, Laboratory, Personalized, Audio-visual | " " " | " " " |
| Prof. Marshall G.Hassenmiller | Soc/Anthro | Auto-tutorial | " " " | " " " |
| Eleanor W. Yelvington | Business | Audio-tutorial, Laboratory | Moraine Valley Comm.Coll. | Palos Hills, Ill. |
| Calvin C. Kuehner | Botany/Mycology | Programmed, Contract, Laboratory, Personalized, Project, Audio-visual, Library, Prescribed | " " " | " " " |
| -- | Business Educ. | Laboratory, Personalized, Project | " " " | " " " |
| -- | Chemistry | Laboratory | " " " | " " " |
| Betsy Horaung | Psychology | Packaged, Project, Personalized, Audio-visual | " " " | " " " |
| Mitchell Povsner | Business Admin. | Programmed, Audio-visual, Personalized | " " " | " " " |
| Lois Angle | Nursing | Auto-tutorial | " " " | " " " |
| Robert Juracka | Biology | Laboratory, Project, Library, Personalized | " " " | " " " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Wilma Hunter | Business Educ. | Audio-tutorial, Auto-tutorial, Contract, Laboratory, Packaged, Personalized, Project, Audio-visual, Library | Southeastern Ill. Coll. | Harrisburg, Ill. |
| Ms. Mary Jo Oldham | Home Econ. | Packaged, Project, Audio-visual, Library | " " " | " " |
| George West | English | Personalized | " " " | " " |
| Mr. Lynn R. Clark | Biology | Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Packaged, Audio-visual | " " " | " " |
| James D. Armour, Ph.D. | Psychology | Personalized, Project, Library, Prescribed | " " " | " " |
| Carole Scambray | Remedial Writing | Laboratory | Kendall College | Evanston, Ill. |
| Elizabeth Canor | Reading | Laboratory, Programmed, Contract, Personalized | " " | " " |
| Ms. Cecilia Cooper | Math | Programmed, Laboratory, Personalized, Prescribed | " " | " " |
| Ann Adams | English | Audio-tutorial, Programmed | MacCormac Jr. College | Chicago, Ill. |
| Mary Zahorak | Typing | Audio-tutorial, Packaged, Audio-visual | " " " | " " |
| Susan Wessels | Shorthand | Audio-tutorial, Packaged | " " " | " " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Marion Ronlinger | Botany | Audio-tutorial, Programmed, Laboratory | Lakeland College | Mattoon, Ill. |
| Richard Heller | Am. History, Econ. | Audio-tutorial, Packaged | " " | " " |
| Dennis A. Gathmann | Life Science | Audio-tutorial, Laboratory, Personalized, Audio-visual | " " | " " |
| Joyce Allen | Pshcyology | Programmed, Project | " " | " " |
| Gerald L. Parker | Economics | Programmed, Project, Personalized | " " | " " |
| Talaat K. Mitri | Life Science | Audio-tutorial, Personalized | " " | " " |
| Joe L. Hanley | Chemistry | Audio-tutorial, Keller, Laboratory, Personalized, Audio-visual | " " | " " |
| Dave Lapan | Health/Phys. Ed. | Auto-tutorial Laboratory, Personalized, Library | " " | " " |
| Cletis Underwood | Composition/Lit. | Auto-tutorial, Packaged, Audio-visual, Prescribed | " " | " " |
| Harold Strangeman | Sociology/History | Audio-tutorial, Contract, Personalized, Audio-visual, Library | " " | " " |
| Larry Gutzler | Biological Sciences | Audio-tutorial, Programmed, Laboratory, Packaged, Personalized | " " | " " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Roy M. Culp | Life Science/Botany | Audio-tutorial, Laboratory, Packaged, Personalized | Lakeland College | Mattoon, Ill. |
| Donald R. Garren | Life Science/Biology | Audio-tutorial, Programmed, Laboratory, Packaged, Personalized | " | " " |
| Jane Deters | Life Sciences | Audio-tutorial, Programmed, Laboratory | " | " " |
| Helen R. Smith | Health Ed. | Personalized | " | " " |
| William G. Little | Economics | Personalized, Audio-visual, Video | " | " " |
| Wayne Weaver | Math | Audio-tutorial, Laboratory, Personalized | " | " " |
| Dale A. Holm | Chemistry | Auto-tutorial, Programmed, Keller, Laboratory, Personalized, Computer | Parkland College | Champaign, Ill |
| Shirley Clausen | Bus/Office Educ | Audio-tutorial, Packaged, Audio-visual | " | " " |
| Luella M. Snyder | English/Math,Counseling | Audio-tutorial, Programmed, Auto-tutorial, Contract, Laboratory, Packaged, Personalized, Audio-visual, Computer, Library, Prescribed | " | " " |
| Charles Beetz | Curriculum Design | Audio-tutorial, Programmed, Contract, Keller, Laboratory, Personalized, Video | " | " " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Soter G. Kokalis | Chemistry | Keller | Harper College | Palatine, Ill. |
| Mike Carroli | Math | Laboratory, Personalized, Video | " " | " " |
| L. King | History | Contract, Personalized | " " | " " |
| Kenneth E. Jauch | Engineering/Electronics | Contract, Project | " " | " " |
| Roger A. Mussell | Educ/Engineering | Audio-tutorial, Contract, Laboratory, Personalized, Project, Video, Computer, Library | " " | " " |
| Sharrie Hildebrandt | Legal Tech | Contract, Project, Personalized | " " | " " |
| James R. Vojtisek | Psychology | Keller | Waubonsee Community Coll. | Sugar Grove, Ill. |
| Helen Baker | Nursing | Audio-tutorial, Auto-tutorial, Laboratory, Packaged, Personalized, Audio-visual, Video, Library | " " | " " |
| Paul R. Rickert | Indust. Educ. | Auto-tutorial, Laboratory, Packaged, | " " | " " |
| Martha Price | Secretarial | Audio-visual-Tutorial, Programmed, Contract, Packaged, Personalized, Project, Audio-visual, Video, Prescribed | " " | " " |
| James Moreland | Welding | Auto-tutorial, Laboratory, Audio-visual | " " | " " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Lee Scheidenhelm | Machine Tool Operation | Audio-tutorial, Laboratory, Project, Audio-visual, Prescribed | Waubonsee Community Coll. | Sugar Grove, Ill. |
| Jean Strausberger | Biology | Audio-tutorial, Laboratory, Audio-visual, Video | " | " |
| Ray Whaley | Math/Astronomy | Programmed | " | " |
| Erna I. OConnor | Sec. Science/Mktng. | Auto-tutorial, Packaged, Video | Kishwaukee College | Malta, Ill. |
| Arger E. Davis | Data Proc/Bus. | Programmed | " | " |
| Terry Martin | Biology | Contract, Laboratory, Personalized, Project, Prescribed | " | " |
| Stanley G. Hagen | Mechanical Tech | Auto-tutorial, Laboratory, Personalized | " | " |
| Albert G.Besserman | Math | Programmed, Laboratory | " | " |
| Dr. Ralph H. Hannon | Chemistry/Physics | Audio-tutorial, Contract, Laboratory, Audio-visual | " | " |
| Larry Paarmann | Electronics | Auto-tutorial, Laboratory, Packaged, Project | " | " |
| Ernest D. Harfst | Electronics | Audio-tutorial, Laboratory | " | " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Meg Conway | Adult Basic Educ. | Audio-tutorial, Auto-tutorial, Programmed | Black Hawk College | Moline, Ill. |
| Maria Van Speybraeck | GED | Auto-tutorial, Programmed, Personalized, Prescribed | " " " | " " |
| Michael E. Payton | Adult Basic Educ. | Auto-tutorial, Programmed, Packaged, Personalized, Audio-visual, Prescribed | " " " | " " |
| Linda Lindaman | Adult/Contng. Educ. | Audio-tutorial, Programmed, Packaged, Personalized, Video, Prescribed | " " " | " " |
| Walter T. Mayes | Administration/Spec.Ed. | Audio-tutorial, Programmed, Laboratory, Packaged, Personalized, Audio-visual | " " | " " |
| James Hall | Electronics | Programmed, Packaged, Personalized, Video, Computer | " " " | " " |
| Phillip K. Knouse | Electronics | Programmed, Laboratory, Packaged, Video, Computer | " | " " |
| Tom Root | Botany,Biology | Audio-tutorial, Auto-tutorial, Audio-visual, Video | " | " " |
| Garnet Barber | Spanish | Audio-tutorial, Prescribed | " " | " " |
| -- | Speech/Hist/Educ | -- | | " " |
| -- | Psych/Soc | Audio-tutorial, Contract, Project, Prescribed | " " | " " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| John R. Grotzinger | Psychology | Programmed, Personalized | Black Hawk College | Moline, Ill. |
| Roger A. Perley | Music | Audio-tutorial, Programmed, Personalized, Prescribed | " " " | " " |
| -- | Health/Phys Ed. | Programmed, Laboratory, Personalized | " " " | " " |
| James H. Parks | Music | Contract, Video | " " " | " " |
| Thomas W. Kienle | Health/Phys Ed. | Programmed, Contract, Laboratory, Personalized | " " " | " " |
| F. L. Langenfeld | German | Audio-tutorial, Auto-tutorial, Contract, Laboratory, Personalized, Project, Library, Prescribed | " " " | " " |
| Ruth Bruck | English | Audio-tutorial, Programmed, contract, laboratory, Packaged, Personalized, Audio-visual, Video, Library | " " " | " " |
| Gordon Bates | Welding | Laboratory | " " " | " " |
| Jane Schmidt | English | Laboratory, Personalized, Project, Audio-visual, Video, Library, Prescribed | " " " | " " |
| Robert L. Custer | Shop/Tech Math | Programmed, Laboratory, Personalized | " " " | " " |
| Hadley Kurtz | Drafting | Laboratory, Audio-visual, Video | " " " | " " |

ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Mardy Hanson | Business Educ. | Auto-tutorial, Programmed, Video | Black Hawk College | Moline, Ill. |
| Dr. Richard J. Henry | Engineering | Mixed lecture/individualized study, lab experiments | " " " | " " |
| Thomas H. Zwich | Indust Tech | Programmed | " " " | " " |
| Mary Stevens | English/Lit | Audio-visual, video | " " " | " " |
| James L. Scott | Speech/Theat | Personalized,Project | " " " | " " |
| Larry Raasch | Typing/Accounting | Programmed, Audio-visual | " " " | " " |
| Marcia Noe | English | Audio-tutorial, Auto-tutorial, Programmed | " " " | " " |
| Philip Beckman | Math | Audio-tutorial, Programmed, Laboratory, Audio-visual, Library, Prescribed | " " | " " |
| -- | Indust. Ec. | Audio-tutorial, Contract, Video, Personalized,Prescribed | " " | " " |
| E. J. Kilgus | Psychology/Soc | Audio-tutorial, Auto-tutorial, Laboratory, Contract, Personalized, Project, Computer, Library, Prescribed | " " " | " " |

ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| -- | Art | Laboratory, Personalized, Project | Black Hawk College | Moline, Ill. |
| Marcella Rainey | Sociology | Contract, Personalized, Project | " " " | " " |
| Bruce Bernardi | Physical Educ. | Auto-tutorial, Contract, Laboratory | " " " | " " |
| Dr. Dolores Bultinck | Communications | Laboratory, Library, Audio-visual | " " " | " " |
| Joseph Panik | Economics, Business | Project | " " " | " " |
| Noel E. Adams | Counseling/Human Serv. | Contract, Project, Personalized | Sauk Valley College | Dixon, Ill. |
| Richard E. Neapolitan | Math | Computer (PLATO) | Wright College | Chicago, Ill. |
| Esther Appler | Nursing/Admin | Audio-tutorial, Auto-tutorial, contract, Laboratory, Personalized, Audio-visual, Video, Library, Prescribed | Sauk Valley College, | Dixon, Ill. |
| -- | Nursing | Audio-tutorial, Auto-tutorial, Laboratory, Personalized, Project, Audio-visual, Video, Library | " " | " " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| -- | Nursing | Audio-tutorial, Auto-tutorial, Laboratory, Personalized, Project, Audio-visual, Video, Library | Sauk Valley College | Dixon, Ill. |
| June Hieton | Nursing | Audio-tutorial, Auto-tutorial, Laboratory, Personalized, Project, Audio-visual, Video, Library, Prescribed | " " " | " " |
| Esther Langanecher | Nursing | Audio-tutorial, Auto-tutorial, Laboratory, Personalized, Audio-visual, Video, Library, Prescribed | " " " | " " |
| Mack Warren | Child Care | Laboratory, Project, Prescribed | " " " | " " |
| Jan Melurin | Nursing | Audio-tutorial, Auto-tutorial, Programmed, Packaged, Audio-visual, Video, Library | " " " | " " |
| Cindy Tegeler | Secretarial Sci. | Audio-tutorial, Auto-tutorial, Laboratory, Packaged, Personalized, Audio-visual, Video, Prescribed | " " " | " " |

ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| James Major | Math | Audio-tutorial | Sauk Valley College | Dixon, Ill. |
| Maxine Petersen | Psychology | Audio-tutorial, Auto-tutorial, Keller, Personalized, Library, Prescribed | " " " | " " |
| Marvin Dahlberg | Accounting | Audio-visual, Packaged | " " " | " " |
| Phil Osborn | Administration | Programmed | " " " | " " |
| Ann Johnson | Psychology | Programmed, Contract, Packaged, Personalized, Library | " " " | " " |
| Karen Pinter | Reading,GED,Lit. | Audio-tutorial, Programmed, Laboratory, Personalized, Audio-visual, Video, Prescribed | " " | " " |
| Chuck Walrath | Reading/Comp,GED | Audio-tutorial, Programmed, Laboratory, Personalized, Audio-visual, Video, Prescribed | " " " | " " |
| -- | Reading | Audio-tutorial, Programmed, Contract, Laboratory, Personalized, Audio-visual, Video, Prescribed | " " | " " |
| Diane Cavosie | Business Ed | Audio-tutorial, Auto-tutorial, Laboratory, Packaged, Personalized, Audio-visual | " " | " " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Mrs. Betsy Tatum | Business/English | Audio-tutorial, Auto-tutorial, Packaged, Personalized, Audio-visual, Video | Sauk Valley College | Dixon, Ill. |
| Sheryl Henkel | Secretarial Science | Audio-tutorial, Auto-tutorial, Laboratory, Packaged, Personalized, Audio-visual, Video, Prescribed | | |
| -- | Nursing | Audio-tutorial, Auto-tutorial, Programmed, Packaged, Audio-visual, Video, Library | " " | " " |
| -- | Nursing | Audio-tutorial, Auto-tutorial, Programmed, Packaged, Audio-visual, Video, Library | " " | " " |
| Viola Paulsen | Business Ed | Audio-tutorial, Auto-tutorial, Laboratory, Packaged, Audio-visual, Video | " " | " " |
| Fred L. Nesbit | Pshcy, Soc | Contract, Personalized, Project, Audio-visual, Library | " " | " " |
| Ron Harjue | Bus Ed/School Admin | Programmed | " " " | " " |

## ILLINOIS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Sally Preissig | Business-Secretarial | Audio-tutorial | College of Lake County | Grayslake, Ill. |
| Delores Rowlee | Business Mach/Shrthnd. | Teacher Prepared Mat. | " " " " | " " |
| -- | Business Ed. | Personalized | " " " " | " " |
| James Suksi | Engineering | Personalized,Project | " " " " | " " |
| Jack D. Cote | Gen. Biology | Keller,Personalized | " " " " | " " |

INDIANA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| John D. Otten | Physical Science | Audio-tutorial, Laboratory, Audio-visual | North Iowa Area Comm.Coll. | Mason City, IOWA |
| E. R. Nutting | Biology | Audio-tutorial, Laboratory, Personalized, Audio-visual | " " " " | " " " |
| Jack B. Easton | Reading/Eng Comp | Personalized, Laboratory, Prescribed | " " " " | " " " |
| Charles Hines | Math | Programmed | " " " " | " " " |
| Mariestelle M. Brown | Communications | Audio-tutorial, Auto-tutorial, Programmed, Contract, Packaged, Personalized, Project, Audio-visual, Prescribed | " " " " | " " " |
| Dennis Walker | Independent Learning Ctr. | Audio-tutorial, Auto-tutorial, Programmed, Packaged, Personalized | Southeastern Community Coll. | West Burlington, IOWA |
| Mrs. Laurine Paule | Eng/Reading | Audio-tutorial, Programmed, Laboratory, Personalized, Prescribed | " " " | " " " |
| Kennett L. Johnson | Math/Reading/Psych | Programmed, Contract, Laboratory, Personalized, Project, Audio-visual Prescribed | Waldorf College | Forest City, IOWA |
| Harvey Johnson | Biology | Audio-tutorial, Programmed, Laboratory, Packaged, Project, Personalized, Audio-visual, Library | " " | " " " |

## INDIANA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| James O. Hill | Economics | Programmed, Contract, Personalized, Keller | Vincennes Univ. | Vincennes, Ind. |
| Larry J. Lehman | Social Science | Audio-tutorial | " " | " " |
| M. David Meyer | U.S.History | Audio-tutorial, Packaged | " " | " " |
| Terry D. McCraney | Economics | Programmed, Packaged, Personalized | " " | " " |
| Franklyn H. Schroeder | Soc/Anthro | Audio-tutorial, Contract | " " | " " |
| David J. Messer | A.D. Nursing | Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Personalized, Audio-visual, Video | " " | " " |
| Curtis A. Dhonau | Chemistry/Admin | Audio-tutorial, Packaged, Computer, Library | " " | " " |
| Martha S. Berry | Reading | Programmed, Laboratory, Personalized, Prescribed | " " | " " |
| Dr. Harriette G. Klinker | English | Audio-tutorial, Auto-tutorial, Programmed, Contract, Laboratory, Packaged, Personalized, Audio-vidual, Video, Library | " " | " " |
| Mrs. Maribel Page | Business/Econ | Auto-tutorial, Laboratory, Personalized, Audio-visual | " " | " " |

## INDIANA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Br. Pedo, CSC | Math | Auto-tutorial Programmed | Holy Cross J.C. | Notre Dame, Ind. |
| -- | History, Pol. Sci. | Personalized, Project, Audio-visual | Ancilla College | Donaldson, Ind. |
| Sister Lorraine Verdenz | Educ. Math | Personalized | " " | " " |
| Sr. Mary Dolores Greifer | English | Personalized | " " | " " |
| Dr. Chelsea Lawlig | Hist/Pol Sci | Auto-tutorial, Packaged | Vincennes Univ. | Vincennes, Ind. |

KANSAS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Dorothy A. Webb | Nursing | Audio-tutorial, Programmed, Personalized, Audio-visual, Library | Dodge City Comm. Coll. | Dodge City, Kan. |
| Mrs. Kathy M. Flodder | Nursing | Contract, Laboratory, Personalized, Audio-visual, Video, Library | " | " |
| Deane Gholson | Nursing | -- | " | " |
| Rex Trauer | Biology | Audio-tutorial | " | " |
| Kathleen M. Arnett | Study Skills | Individual formats | " | " |
| Ephnet J. Bowin | Business Admin. | Programmed, Laboratory, Packaged | Labette Community Coll. | Parsons, Kan. |
| Ralph W. Gaier | Life Science | Auto-tutorial, Laboratory, Audio-visual, Video, Multi-Media | " | " |
| Gerald L. Hodgson | Physical Science | Auto-tutorial, Prescribed | Kansas City Kansas Comm. Coll. | Kansas City, Kan. |
| Ann Standefer | Public Speaking | Contract | " | " |
| Veronica Kelly | Nursing | Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Packaged, Personalized, Project, Audio-visual, Video, Library, Prescribed | " | " |
| Sue Conoley | Nursing | Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Packaged, Personalized, Audio-visual, Video, Library | " | " |

KANSAS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Frank Howard | Physiology/Zoology | Audio-tutorial, Contract, laboratory, Packaged, Personalized, Project, Audio-visual, video, Library | Kansas City Kan. Comm.Coll. | Kansas City, Kan. |
| Philip E. Buechner, Jr. | Math | Audio-tutorial, Contract, Laboratory, Personalized, Audio-visual, Video, Prescribed | Cowley County Comm.Coll. | Arkansas City, Kan. |
| Richard E. Tredway | Tech Agriculture | Audio-tutorial, Programmed, Laboratory, Audio-visual | " | " |
| Larry L. Clark | Math | Audio-tutorial, Programmed, Laboratory, Packaged, Personalized, Audio-visual, Video, Computer, Library, Prescribed | " | " |
| Michael Watters | Chemistry | Audio-tutorial, Laboratory, Personalized, Audio-visual, Library, Prescribed, Behavioral Objectives, Mini-Courses | " | " |
| Arlyn Parish | Sociology | Contract, Programmed, Personalized, Project, Audio-visual | Highland Comm. Jr. Coll. | Highland, Kan. |
| Ben L. Clay | Speech/Drama | Laboratory, Personalized, Project | " | " |

KANSAS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Walter Yost | Fine Arts | -- | Highland Comm. Jr.Coll. | Highland, Kan. |
| James E. Arnwine | Biology | Audio-tutorial, Programmed, Laboratory, Audio-visual | Independence Comm.Coll. | Independence Kan. |
| Carlene Smith | English/Voc Ed | Personalized, Prescribed | " " " | " |
| Bonnie B. Cox | Bus/Voc Ed | Personalized, Prescribed | " " " " | " |
| Ken Vineyard | Psych/Soc | Contract, Personalized | " " " " " | " |
| -- | Physics | Laboratory, Personalized, Project, Audio-visual, Video, Computer, Library | Hutchinson Community Coll. | Hutchinson, Kan. |
| Dale Gleason | English | -- | " " " " | " |
| Dr. Thomas W. Shane | Religion | Personalized | " " " " | " |
| Mrs. Arless Eilerts | English | Programmed, Contract, Laboratory, Packaged, Personalized, Audio-visual, Library, Prescribed | " " " " | " |
| Earl Weidman | Electronics | Laboratory, Personalized, Video, Library | " " " | " |
| Dr. Frank M. Slapar | Tech Science | Contract, Laboratory, Video | " " " " | " |

## KANSAS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Dr. Kay Dundas | Math | Audio-tutorial | Hutchinson Comm. Jr. Coll. | Hutchinson, Kan. |
| Dwight Roth | Soc. | Personalized, Field Experience | Hesston College | Hesston, Kan. |
| John M. Lederach | Religion, Educ. | Packaged | " " | " " |
| Loren D. Reusser | Bus. Ed./Bus. Adm. | Audio-tutorial, Audio-visual | " " | " " |
| Nelson Kilmer | Physics/Electronics | Programmed, Video | " " | " " |
| Jacob Friesen | Aviation | Auto-tutorial, Laboratory, Personalized, Prescribed | " " | " " |
| Phil Osborne | Psychology | Keller | " " | " " |
| Ms. Donna Youngblood | Business Ed. | Audio-tutorial, Programmed, Personalized, Project | St. John's College | Winfield, Kan. |
| Lee Stocker | Music Theory | Auto-tutorial, Laboratory," Personalized, | " " | " " |
| Mrs. Verona Fosdick | Bus. Ed. | Audio-tutorial, Personalized | " " | " " |
| Eugene Brott | Higher Ed./Chem. | Audio-visual | " " | " " |
| Mrs. Elva Lee | Psychology | Audio-tutorial, Auto-tutorial, Programmed, Contract, Laboratory, Personalized, Audio-visual, Prescribed | Neosho County Comm.Coll. | Chanute, Kan. |
| Charles O. Carter, Jr. | Biology | Audio-tutorial, Laboratory, Audio-visual, Library, Prescribed | " " " " " " | |

## KANSAS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| -- | Biology/Counseling | Laboratory, Personalized Project, Library, Prescribed | Donnelly College | Kansas City, Kan. |
| Sr. Mary Ann Wirtz | Chemistry | Audio-tutorial, Programmed, Personalized, Audio-visual | " | " |
| Donna Kyte | English | Audio-tutorial, Auto-tutorial, laboratory, Personalized, Library | " | " |
| Steve Scott | Math | Laboratory, Personalized | " | " |
| Delbert A. Jurden | History/Religion | Audio-tutorial, Programmed, Personalized, Library | " | " |
| Sr. Jean Moran | Math | Laboratory, Personalized | " | " |
| Harold Harp | Comp/Lit | Audio-tutorial, Programmed, Laboratory, Packaged, Personalized | Johnson County Comm.Coll. | Overland Park,Kan. |
| Thomas M. Barnett | Chem/Educ/Math/Phys Sci | Audio-tutorial, Programmed, Laboratory, Personalized, Project, Audio-visual, Video, Library | " | " |
| John Rider | Office Educ. | Programmed, Laboratory, Packaged, Personalized, Prescribed | Coffeyville Comm.Jr.Coll. | Coffeyville, Kan. |
| Sam Rawdon | Speech | Contract/Project, Personalized | " | " |

KANSAS

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Mrs. Mary Ann Pendleton | Business Educ. | Audio-tutorial, Laboratory, Packaged, Personalized, Video | Coffeyville Comm.Jr.Coll. | Coffeyville, Kan. |
| Frank R. Ortolani | Social Science | Audio-tutorial,Project, Personalized, Audio-visual, Video, Library | " " " " | " " |
| James T. Nordin | Business Educ. | Personalized, Packaged | " " " " | " " |
| Shirley McCormack | Business Admin | Laboratory | " " " " | " " |
| Billy R. Clark | Sociology | Audio-tutorial, Project, Audio-visual, Library | " " " | " " |
| Carolyn Cook | Office Education | Programmed, Laboratory, Personalized, Audio-visual Video, Prescribed | " " " | " " |
| Scott Brown | Biology | Audio-tutorial, Laboratory, Packaged, Project, Audio-visual, Video, Library | " " " | " " |

## MICHIGAN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Louis Baca | Science/Math/Eng. | Programmed, Laboratory, | Alpena Community Coll. | Alpena, Mich. |
| Jack Randall | Science/Math/Eng. | Programmed, Laboratory | " " " | " " |
| Mary Lee Yatchak | Accounting | Programmed, Laboratory, Packaged, Audio-tutorial, Modules | Gogebic Community Coll. | Ironwood, Mich. |
| Maryann Novak | Nursing | Auto-tutorial, Programmed, Laboratory, Prescribed | " " " | " " |
| -- | Academy of Beauty | Laboratory, Personalized, Project, Audio-visual | " " " | " " |
| D.B. Austin | Music Apprec. | Audio-tutorial, Audio-visual, Prescribed | " " " | " " |
| R. Stanley Dicks | English | Audio-tutorial, Programmed, Laboratory, Personalized, Audio-visual, Prescribed | Muskegon Comm. Coll. | Muskegon, Mich. |
| Barney Herron | Math | Audio-tutorial, Programmed, Laboratory, Packaged, Personalized, Project, Audio-visual, Video, Prescribed | " " " | " " |
| Mrs. Jean Daugherty | Personalized Lab | Audio-tutorial, Programmed, Contract, Lab, Personalized, Audio-visual, Video, Computer, Library, Prescribed | " " " | " " |

MICHIGAN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Don Goodman | Reading | Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Packaged, Personalized, Audio-visual, Video, Library, Prescribed | Muskegon Comm.Coll. | Muskegon, Mich. |
| Leo Teholiz | Humanities | Personalized, Prescribed | West Shore Comm. Coll. | Scottsville, Mich. |
| Michael Syzmanski | Fine Arts | Laboratory, Personalized, Project, Audio-visual | " | " |
| Larry G. Williams | Arithmetic | Audio-tutorial, Programmed, Library. | Schoolcraft Comm.Coll. | Livonia, Mich. |
| Irene R. Woodall | Dental Hygiene | Auto-tutorial, Programmed, Contract, Keller, Laboratory, Packaged, Project, Audio-visual, Video, Library | Kalamazoo Valley Comm.Coll. | Kalamazoo, Mich. |
| Gloria Noble | Secretarial | Audio-visual-tutorial | " | " |
| Mary Scott | Nursing | Keller, Laboratory, Audio-visual, Video, Prescribed | " | " |
| Clarence F. Knight | Police Admin. | Programmed, Packaged, Personalized, Prescribed | St. Clari County Comm.Coll. | Port Huron,Mich. |
| F. Dale Cox | Fire Science | Laboratory, Personalized, Project, Audio-visual, Library, Prescribed | Macomb County College | Mt.Clemens, Mich. |

## MICHIGAN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| James Dingman | Sociology | Programmed, Packaged, Project, | Jackson Community Coll. | Jackson, Mich. |
| Henry McKeown | Bus.Ed/Eng/Higher Ed. | Programmed, Laboratory, Personalized, Project, Student Tutors | " " " | " " |
| -- | Engineering | Programmed, Packaged, Personalized, Prescribed | " " " | " " |
| Dr. R. Nels Oman | Business Educ. | Audio-visual-Tutorial, Laboratory, Prescribed | " " " | " " |
| Arthur Kidd | Math | Programmed, Personalized | Monroe County Comm.Coll. | Monroe, Mich. |
| Donald E. Wanhala | Biological Sciences | Audio-tutorial, Programmed | Suomi College | Hancock, Mich. |
| Frank Plaritz | Basic English | -- | " " | " " |
| Wallace E. Anderson | History/Law Enf. | Packaged | " " | " " |
| Rob Roy | Art Educ./Dramatics | Personalized, Project, Audio-visual,Library | " " | " " |
| Tom Stuber | Media Communications | Personalized,Project | Itaska Community Coll. | Grand Rapids, Mich. |
| Thomas Adamson | Math | Audio-tutorial | " " " | " " " |
| Robert Schwob | Bio.Sciences | Audio-tutorial,Video, Personalized,Audio-visual | " " " | " " " |

## MICHIGAN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Rita Lally | Secretarial | Audio-visual-tutorial | Grand Rapids Jr. Coll. | Grand Rapids, Mich. |
| Lori VanMaastricht | Health Ed. | Lecture, Lecture-discussion, Audio-visual, Audio-tutorial | " " " | " " " |
| -- | Nursing | Auto-tutorial, Lab, Personalized, Project, Audio-vidual, Modules | " " " " | " " " |
| Marjorie Weisgerber | Nursing | Personalized, Project, Audio-visual, Library, Modules | " " " " | " " " |
| Arthur M. Hyde | Accounting/Bus. Ed. | Audio-tutorial, Lab, Audio-visual | " " " " | " " " |

## MINNESOTA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Orville Moran | English/Reading | Auto-tutorial,Programmed, Contract,Packaged | Austin Comm. Coll. | Austin, Minn. |
| Robert E. Toensing | Studio Arts | Personalized,Project | Anoka Ramsey Comm.Coll. | Coon Rapids, Minn. |
| James D. Conaway | Painting/Drawing | Laboratory/Personalized, Project,Audio-visual | " " " " | " " " |
| -- | Educ. Admin. | Contract,Personalized | " " " " | " " " |
| Robert Bateson | EET/Computer Sci/Elect.Eng. | Keller,Prescribed, Personalized | " " " " | " " " |
| Ralph Peterson | Economics | Audio-tutorial, Audio-visual, workbook exercises | " " " " | " " " |
| Joyce M. Ebnet | Business Educ. | Programmed,Laboratory, Personalized | " " " " | " " " |
| Kathleen G. Woods | English/Reading | Audio-tutorial,Auto-tutorial,Programmed, Contract,Laboratory, Personalized,Project, Video,Library,Prescribed | " " " " | " " " |
| Jerry Schliep | Earth Sci/Biology | Audio-tutorial,Auto-tutorial,Lab,Audio-visual | Willmar Comm. Coll. | Willmar, Minn. |
| Adolph Beich | Office Educ. | Audio-tutorial, Programmed, Project, Laboratory | U. of Minn.Tech. Coll. | Crookston, Minn. |
| William Peterson | Math | Audio-tutorial | " " " " | " " |
| Gretchen Schwartz | Reading | Programmed, Contract, Laboratory,Personalized, Project, Visual, Library, Prescribed | " " " " | " " |

MINNESOTA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| La Hertzmann | Math | Programmed | Normandale Comm. Coll. | Bloomington, Minn. |
| Adolph Beich | Office Educ. | Audio-tutorial, Programmed, Project, Laboratory | U. of Minn.Tech.Coll. | Crookston, Minn. |
| William Peterson | Math | Audio-tutorial | " " " " | " " |
| Gretchen Schwartz | Reading | Programmed, Contract, Laboratory, Project, Personalized, Audio-visual, Library, Prescribed | " " " " | " " |
| Peter Maneno | Gen.Exp./Counseling/Psych. | Programmed, Contract, Keller, Lab, Personalized | Normandale Comm. Coll. | Bloomington, Minn. |
| Karen M. Hanson | Reading/Basic Skills | Audio-tutorial, Programmed, Contract, Packaged, Personalized, Project, Audio-visual, Video, Library, Prescribed | " " " | " " |
| Dr. Richard Thompson | DDS/MPH | Audio-tutorial, Keller, Personalized | " " " | " " |
| Wayne A. Becker | Anatomy/Physiology | Minicourse | " " " | " " |
| Judy Marshik Gustafson | Nursing/Educ.Psych. | Audio-tutorial, Programmed, Contract, Lab, Audio-visual, Video,Library | " " " | " " |
| Rex Sala, LeRoy Gilbertson, Eugene Auringer | Chemistry | Audio-tutorial, Lab, Computer | Austin Community College | Austin, Minn. |

MINNESOTA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Susan Vaughan | Music/Art | Lab,Personalized, Project | Hibbing Comm.Coll. | Hibbing,Minn. |
| John Galliford | Psychology | Field work | " " " | " " |
| Thomas F. Palmersheim | Music Theory/Comp | Personalized,Project, Audio-visual,Library | " " " | " " |
| Molly Ortman | English | Personalized,Auto-tutorial,Project, Library | " " " | " " |
| Eugene Sorensen | English | Programmed,Contract, Personalized,Prescribed | Rochester Community Coll. | Rochester, Minn. |
| Leonard M. Jansen | Social Science/Geog/Hist | Audio-tutorial,Project, Personalized, Library, Prescribed | " " " | " " |
| Irvin Klitzuweit | Chemistry | Programmed | " " " | " " |
| Robert Zwart | English | Audio-tutorial,Programmed, Laboratory,Personalized | " " | " " |
| Jean Johnson | Nursing | Audio-tutorial,Programmed, Laboratory, Personalized, Audio-visual, Video,Library | " " | " " |
| DeWaine C. Silker | Math | Audio-tutorial | " " " | " " |

MINNESOTA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Kenneth E. Taylor | Psychology | Keller | No. Hennepin Comm.Coll. | Minneapolis, Minn. |
| Charles Long | Physics/Engr./Nat.Sci. | Keller | " " " " | " " |
| Richard A. Langlie | Math | Audio-tutorial,Keller, Audio-visual,Prescribed | " " " " | " " |
| Dr. John D. Jackson | Biology | Audio-tutorial,Audio-visual,Library,Prescribed | " " " " | " " |
| Doris J. Meyerding | Accounting | Audio-visual, Lectures | " " " " | " " |
| Ruby C. Hass & Mary A. Cowden | Nursing | Audio-tutorial,Programmed, Lab,Packaged,Audio-visual, Video,Library | St.Mary's Jr. College | Minneapolis, Minn. |
| Joseph A. Reda | Medical Technology | Audio-tutorial,Programmed, Lab,Audio-visual,Packaged | " " " " | " " |
| -- | Respiratory Therapy | Contract,Lab,Packaged, Lecture | " " " " | " " |
| Shirley Asklund | Nursing Admin. | Programmed | " " " " | " " |
| Patricia Babcock | Occupational Therapy | Audio-tutorial,Contract, Lab,Audio-visual | " " " " | " " |
| -- | Medical Records Sci. | Packaged | " " " " | " " |

## MISSOURI

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| -- | Math | -- | Florissant Valley Comm.Coll. | St. Louis,Mo. |
| -- | Math | Audio-tutorial,Auto-tutorial,Programmed, Lab,Personalized | " " " " " " " | |
| B. Samples | Speech/Theatre | Auto-tutorial,Programmed,Contract, Packaged,Personalized, Project,Audio-visual,Video | " " " " " " | |
| Mrs. Jean Beaulieu | Eng Comp/Lit | Auto-tutorial,Laboratory, Packaged,Personalized, Prescribed | " " " " " " | |
| Barbara French | English | Laboratory,Personalized | " " " " " " | |
| Eleanor McCluskey | Comp Lit/Fr,Span,Eng | Programmed,Lab | " " " " " " | |
| Anita Taylor | Speech/Comm | Contract,Programmed, Packaged,Personalized, Project,Video | " " " " " " | |
| Alice Lante | Speech Path/Comm | Audio-tutorial,Lab, Personalized,Audio-visual Video | " " " " " " | |
| Diana J. Hedrick | Speech Comm. | Programmed,Contract,Packaged, Personalized,Project,Video | " " " " " | |

MISSOURI

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| George A. Bunch | Sociology | Self-study | Penn Valley Comm Coll | K.C., Mo. |
| Chad Haywood | Gen Psych | Programmed, Personalized, Prescribed | " " " " | " " |
| Joe Klassen | Hist/Gov | Keller, Audio-visual, Prescribed | " " " " | " " |
| Forrest G. Lowe | Physics/Math | Audio-tutorial, Audio-visual, Computer | Longview Community Coll. | Lees Summit, Mo. |
| Michael Miller | Comp/Lit | Personalized, Project, Library | " " " " | " " " |
| Vivian A. Wilson | Comp/Lit | Contract | " " " " | " " " |
| Michael E. Benson | Adm. of Justice | Audio-tutorial, Contract, Library | " " " | " " " |
| Richard D. Shaw | Business Law | Text/workbook | " " " " | " " " |
| Dr. John Kaczynski | Chemistry | Audio-tutorial, Keller, Packaged, Personalized, Audio-visual, Prescribed | " " " " | " " " |
| Aldo Leker | Business/Data Proc. | Audio-visual, Video Individual Instr. Packets | " " " " | " " " |
| Rowena Easter | Business/Sec. | Audio-tutorial, Lab, Audio-visual | " " " " | " " " |

## MISSOURI

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Doone Loughery | Business Educ. | Audio-tutorial,Programmed, Laboratory,Audio-visual | Longview Community Coll. | Lees Summit,Mo. |
| Mrs. Shirley A. Smith | Business/Sec. | Audio-tutorial,Programmed, Laboratory,Audio-visual | " | " |
| -- | French/Spanish | Independent/Text | " | " |
| John H. Watkins | Math | Audio-visual,Book/Class-room Instr.,Sound-on Slide, Pre and Post-tests | Mineral Area College | Flat River, Mo. |
| Jasper H. Laudeau | Psych/Soc | Auto-tutorial,Packaged, Keller | " | " |
| James A. Gardner | Hist/Soc Sci | Personalized | " | " |
| Ginger D. Hampton | Eng/Lit/Speech | Packaged,Video,Project | " | " |
| Carl F. Painter | Physics/Engr. | Laboratory,Packaged, Prescribed | " | " |
| Elvis G. Clark | English Comp | Auto-tutorial | " | " |
| Al Putchett | Ed. | Personalized,Video, Audio-visual | East Central Jr. Coll. | Union, Mo. |
| Bill Landers | Math | Keller,Video, Personalized | " | " |
| Brian Hickey | Math/Econ | Self-paced wkbk | " | " |
| Ron Beeler | Math | Packaged,Video, small group disc. | " | " |

## MISSOURI

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Leroy H. Alt | Physics/Math | Personalized,Video, Prescribed | East Central Jr.Coll. | Union, Mo. |
| Lee M. Adams | Dev. English | Audio-tutorial,Programmed, Lab, Video, Personalized,Audio-visual | " " " " | " " |
| Paul Polette | Marketing | Personalized,Project, Prescribed | St.Mary's College of O'Fallon | O'Fallon,Mo. |
| Sister Bernice Moellering | Comp/Lit/Speech | Contract,Packaged, Personalized,Prescribed | " " " " " | " " |
| Louis P.Pushkarsky | Math | Programmed, Personalized | Trenton Junior College | Trenton, Mo. |
| Don Claycomb | Bus. | Personalized | Trenton Junior College | " " |
| Nelua Claycomb | Business Ed. | Audio-tutorial,Programmed, Lab,Personalized | " " " | " " |
| Mrs. Carolyn Smith | Bus.Ed/Phys Ed. | Audio-tutorial,Programmed, Lab,Personalized | " " " | " " |
| Kennard D. Kelly | Sociology | Packaged/Project | Maple Woods Comm.Coll. | Kansas City,Mo |
| Sharon Calloway | Eng/Speech/Theat/Ed. | Personalized,Project, Audio-visual,Video, Library | " " " " | " " " |
| Donna Kay Croucher | -- | Audio-tutorial,Auto-tutorial, Programmed,Lab,Packaged, Personalized,Audio-visual,Video, Library, Prescribed | " " " | " " " |

## MISSOURI

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Harry A. King | Am Hist/Govt | Programmed,Packaged, Personalized,Library, Prescribed | Maple Woods Comm.Coll. | Kansas City,Mo. |
| Ernest A. Cetto | Zoology | Audio-tutorial,Audio-visual,Library | " " " " | " " " |
| Ms.Gloria R. Directo | English/Lit | Personalized,Project, Prescribed | " " " " | " " " |
| -- | Amer Hist/Govt | Packaged,Project | " " " " | " " " |
| Mark E. Heimsoth | History | Personalized,Project, Library | St. Paul's College | Concordia, Mo. |

MISSOURI

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| R. L. Heider | Chemistry | Auto-tutorial,Programmed, Contract,Keller,Lab, Personalized,Audio-visual, Library | Meramec Community Coll. | St. Louis, MO |
| Anna Marie Lottmann | French/Spanish | Programmed, Lab | " | " |
| A. J. Ostergaard | Indust. Educ. | Audio-tutorial,Contract, Keller, Lab,Packaged, Project,Audio-visual, Prescribed | " | " |
| Carol Miller | History | Audio-tutorial,Contract, Packaged,Audio-visual, Library | " | " |
| Jules Biegelsen | History | Audio-tutorial,Auto-tutorial,Programmed, Contract,Personalized, Library | " | " |
| Lawrence J. McDoniel | English/Comm. | Audio-tutorial,Auto-tutorial,Contract,Programmed, Keller,Lab,Personalized, Project,Audio-visual,Video, Tutorial | " | " |
| Mrs. Barbara Chesman | Psych/English/Media | Audio-tutorial,Auto-tutorial,Programmed, Contract,Packaged, Personalized,Audio-visual, Library,Prescribed | " | " |
| Lawrence Klein | English | Audio-tutorial,Auto-tutorial, Programmed,Lab,Keller,Audio-visual, Personalized, Library,Prescribed | " | " |

NEBRASKA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| W. R. Gredesky | Math/Economics | Programmed,Lab,Personalized, Lect/Lab | Northeast Nebr.Tech.Comm.Coll. | Norfolk, Nebr. |
| Larry Holland | Lit/Comp | Personalized | " | " |
| Arthur Robertson | Math | Programmed, Lab, Packaged,Personalized | " | " |
| Gary Miller | English | Lab,Personalized, Prescribed | " | " |
| -- | Air Cond. | Programmed,Lab, Personalized,Project,Library | Southeast Comm.Coll. | Milford, Nebr. |
| -- | Refrig/Air Cond | Audio-tutorial, Programmed, Contract, Project, Audio-visual | " | " |
| Larry Knauber | Air Cond. | Programmed, Lab, Personalized, Project, Audio-visual, Library | " | " |
| -- | Plumbing | Contract,Personalized, Audio-visual | " | " |
| -- | Civ. Engineering | Group/Class Lecture, Demonstrate,Test, Performance | " | " |
| Orvis F. Wall | Math/Science | Prescribed | " | " |
| R. Covert | Civ Tech | Contract, Lab,Personalized | " | " |

NEBRASKA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Steven D. Yates | -- | Lab,Packaged, Personalized,Project, Audio-visual,Video,Library, Prescribed | Southeast Comm. Coll. | Milford, Nebr. |
| -- | Welding/Metallurgy | Laboratory,Packaged, Personalized,Project, Audio-visual, Video,Library,Prescribed | " | " |
| E. W. "Al" Havener | Tech/Trade Educ. | Lab/Packaged,Personalized,Project,Audio-visual, Video,Library,Prescribed | " | " |
| -- | Electomechanical Tech/Math | Auto-tutorial,Programmed, Personalized,Prescribed | " | " |
| Kietn Boyle | Auto-mechanics | Packaged, Personalized, Project, Audio-visual, Prescribed | Central Tech Comm. Coll. | Hastings, Nebr. |
| Gary Minnick | Auto-mechanics | Laboratory,Packaged,Personalized,Project,Audio-visual,Prescribed | " | " |
| Vernon Lunsford | Auto-mechanics | Lab,Packaged,Personalized, Project,Audio-visual, Prescribed | " | " |
| Burdette Thomsen | Auto-mechanics | Lab,Packaged, Personalized,Project,Audio-Visual,Prescribed | " | " |
| Richard Stelzer | Auto Refinishing | Lab,Programmed, Packaged, Personalized,Project,Audio-visual, Prescribed | " | " |

## NEBRASKA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Elmer Lykke | Automotive Metal | Lab,Packaged, Personalized,Project, Audio-visual,Prescribed | Central Tech Comm Coll | Hastings, Nebr. |
| Les Oelschlager | Diesel | Lab, Packaged, Personalized, Project, Audio-visual,Prescribed | " " " " | " " |
| Elwood Onken | Diesel | Lab,Packaged,Personalized, Project, Audio-visual,Prescribed | " " " " | " " |
| Leonard Shimek | Diesel | Lab,Packaged, Personalized, Project,Audio-visual,Prescribed | " " " " | " " |
| Hugh Johnson | Ag | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " " " " | " " |
| Moreland Rucker | Horticulture | Lab,Packaged, Personalized, Project, Audio-visual,Prescribed | " " " " | " " |
| George Petr | Ag | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " " " " | " " |
| Lavern VanBuskirk | Ag | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " " " " | " " |
| Dwight Crawford | Environmental | Lab,Packaged,Personalized,Project, Audio-visual,Prescribed | " " " " | " " |
| J. Dropal | Electronics | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " " " " | " " |

NEBRASKA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Kenneth Pitty | Electronics | Lab,Packaged,Personalized, Project, Audio-visual,Prescribed | Central Tech Comm Coll | Hastings,Nebr. |
| Carl Brown | Electronics | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " " " " | " " |
| Eugene Young | Electronics | Lab,Packaged,Personalized, Project,Audio-visual, Prescribed | " " " " | " " |
| William Teller | Indust. Electronics | Lab, Packaged,Personalized, Project,Audio-visual,Prescribed | " " " " | " " |
| Bill Feighty | Electrical | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " " " " | " " |
| Ron Meyer | Electrical | Lab, Packaged, Personalized," Project,Audio-visual,Prescribed | " " " " | " " |
| James Norman | Refrigeration | Lab, Packaged,Personalized, Project,Audio-visual,Prescribed | " " " " | " " |
| Wayne Faster | Refrigeration | Lab, Packaged, Personalized, Project,Audio-visual,Prescribed | " " " " | " " |
| Allen Krueger | Air Cond. | Lab,Packaged,Personalized,Project, Audio-visual,Prescribed | " " " " | " " |
| Walter Miller | Arch.Drafting | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " " " " | " " |

NEBRASKA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Willis Gabbert | Mech.Drafting | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | Central Tech Comm Coll | Hastings, Nebr. |
| Latham Mortensen | Welding | Lab,Packaged, Personalized, Project,Audio-visual,Prescribed | " | " |
| Ronald Zlamke | Machine Tech | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " | " |
| Ewart Barton | Machinist | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " | " |
| Dale Petersen | Carpentry | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " | " |
| Eugene Cookus | Construction | Lab,Packaged,Personalized,Project, Audio-visual,Prescribed | " | " |
| Ray F. Johnston | Construction | Lab,Packaged,Personalized,Project, Audio-visual,Prescribed | " | " |
| Marylin Gerritsen | Nursing | Lab,Packaged,Personalized,Project, Audio-visual,Video,Prescribed | " | " |
| Karen Baird | Human Services | Laboratory,Packaged,Personalized, Project,Audio-visual,Video,Prescribed | " | " |
| Joan Wieland | Human Services | Laboratory,Packaged,Personalized, Project,Audio-visual,Video,Prescribed | " | " |
| Duane Biede | Social Science | Laboratory,Packaged,Personalized, Project,Audio-visual,Prescribed | " | " |

NEBRASKA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Jana Cauren | Social Studies | Laboratory,Packaged,Personalized,Project,Audio-visual,Prescribed | Central Tech Comm Coll | Hastings,Nebr. |
| J. Cross | Social Studies | Laboratory,Packaged,Personalized,Project,Audio-visual,Prescribed | " | " |
| John Dabronabry | Oral Communication | Lab,Packaged,Personalized,Project,Audio-visual,Prescribed | " | " |
| Caril Kinneman | Math | Lab,Packaged,Personalized,Project,Audio-visual,Prescribed | " | " |
| Ron Medley | Art | Lab,Packaged,Personalized,Project,Audio-visual,Prescribed | " | " |
| Julie Persinger | English | Lab,Packaged,Personalized,Project,Audio-visual,Prescribed | " | " |
| Rob Robinson | Sociology | Lab,Packaged,Personalized,Project,Audio-visual,Prescribed | " | " |
| Judith Ross | English | Lab,Packaged,Personalized,Project,Audio-visual,Prescribed | " | " |
| Karen Tuinstra | Reading | Lab, Packaged,Personalized,Project,Audio-visual,Prescribed | " | " |
| Mary Wiengra | Business Law | Lab,Packaged,Personalized,Project,Audio-visual,Prescribed | " | " |
| Maroia Braumbaugh | Secretarial | Lab,Packaged,Personalized,Project,Audio-visual,Video,Prescribed | " | " |

NEBRASKA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Josephine Hill | Secretarial | Lab,Packaged,Personalized, Project, Audio-visual, Prescribed | Central Tech Comm Coll | Hastings, Nebr. |
| Marion Bender | Secretarial | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " | " |
| Betty Jackson | Personal Dev./Girls | Lab,Packaged,Personalized, Project,Audio-visual,Video, Prescribed | " | " |
| Haskell Kirkland | Hotel/Motel/Rest/Mgmnt | Lab,Packaged,Personalized, Project,Audio-vidual,Prescribed | " | " |
| Joseph Kranz | Marketing/Mgmnt | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " | " |
| Mrs. George McArthur | Secretarial | Lab, Packaged, Personalized, Project,Audio-visual,Prescribed | " | " |
| Richard Morse | Data Processing | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " | " |
| Edward Ziemba | Data Processing | Lab,Packaged,Personalized,Project, Audio-visual,Prescribed | " | " |
| James Pronge | Marketing | Lab,Personalized,Project, Audio-visual,Prescribed | " | " |
| Virginia Stocton | Bookkeeping | Lab,Packaged,Personalized, Project,Audio-visual, Prescribed | " | " |
| Bruce Ebmier | Broadcasting | Lab,Packaged,Personalized, Project,Audio-visual,Prescribed | " | " |

NEBRASKA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Lee Preston | Accounting | Lab,Packaged, Personalized,Project,Audio-visual, Prescribed | Central Tech Comm Coll | Hastings,Nebr. |
| -- | Math | Programmed | Nebraska Western Coll | Scottsbluff,Nebr. |
| -- | English | Audio-tutorial,Programmed, Personalized,Audio-visual | " " " | " " |
| Arthur Russell | Biology/Zoology | Audio-tutorial,Programmed, Lab, Audio-visual | " " " | " " |
| John L. Koch | Biology | Audio-tutorial,Lab, Personalized,Audio-visual | " " " | " " |
| M. Jane HUnter | Reading | Contract,Prescribed | " " " | " " |
| J.D. Hunter | Curriculum/Inst./Comm. | Contract,Personalized, Project,Audio-visual, Video | " " " | " " |
| Jean Ahrens | Reading | Contract,Personalized, Project,Audio-visual, Prescribed | " " " | " " |

## NEW MEXICO

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| J.J.Jenkins | Chemistry | Audio-tutorial,Audio-visual, Video | New Mexico Military | Roswell, N.M. |
| Geraldine Hall | Reading | Programmed,Personalized, Audio-vidual,Library, Lab | N.M.State Univ. | San Fidel, N.M. |

## NORTH DAKOTA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Leonard Ruzickou | Freehand Drawing/Tech Lttr | Auto-tutorial, Contract, Packaged | North Dakota State School of Science | Wohpeton, N.D. |
| Don Rosley | Electronic Tech | Programmed, Audio-vidual | " " " " | " " |
| James G. Aldrich | University Studies | Programmed, Lab, Packaged, Personalized, Audio-visual, Video, Lecture | " " " " | " " |
| Erna Lam | Occupational Therapy | Individual/Independent Study | " " " " | " " |
| John Anthony | Psychology | Programmed, Contract, Personalized | " " " " | " " |
| J. J. Brandt, Ph.D. | History | Personalized, Library | " " " " | " " |
| -- | Voc Ed/Bus Ed | Programmed, Contract, Packaged, Personalized, Audio-visual, Prescribed | " " " " | " " |

## OHIO

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Joseph Clovesko | Intro Biology | Audio-tutorial, Programmed, Lab, Packaged, Personalized, Audio-visual, Library, General Lecture | Cuyahoga Comm Coll | Cleveland, Ohio |
| William P. Lucas | Accounting | Auto-tutorial, Audio-visual | " | " |
| David E. Wileman | Drafting & Design | Personalized | " | " |
| Gaston Ndyajunwoha | Math/Statistics | Keller, Modified | " | " |
| Mrs. Anna L. Shrider | Physics/Math | Own system | " | " |
| Linda Taylor | Communications | Audio-tutorial, Programmed, Lab, Packaged, Personalized, Project, Audio-visual, Video | Muskengen Area Tech Coll | Zanesville, Ohio |
| Bruce Doggett | Math | Audio-tutorial, Lab, Packaged, Personalized, Audio-visual, student tutors | " | " |
| Thomas J. Stark | Engineering Math | Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Personalized, Audio-visual, Library, Prescribed | Cincinnati Technical Coll | Cincinnati, Ohio |
| Harry Heink | Educ/Admin | Audio-tutorial, Programmed, Lab, Personalized, Audio-visual, Video, Library | " | " |
| Emily H. Carr | Dental Hygiene | Lab, Programmed, Audio-visual | Raymond Walters Coll | Cincinnati, Ohio |
| Anthony P. Malone | Math | Programmed, Contract, Packaged, Personalized, Modular | " | " |

## OHIO

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Judith M. Schultz | Biology | Keller | Raymond Walters Coll | Cincinnati, Ohio |
| Judith A. Baughin | French | Programmed,Lab,Packaged, Personalzied,Audio-visual | " " " | " " |
| Carol Laque | English | Personalized,Library, Prescribed | " " " | " " |
| Carol Robinson | English | Programmed,Lab, Audio-visual,Computer,Prescribed | " " " | " " |
| -- | English | Lab,Personalized, Prescribed | " " " | " " |
| Roger Allen | Communication | Audio-tutorial, Programmed,Contract,Lab, Packaged,Project,Audio-visual,Library,Prescribed | Washington Tech Coll | Marietta, Ohio |
| William R. Sheets | Accounting | Contract,Lab,Personalized," Lab,Prescribed, Audio-visual | " " | " " |
| Gloria Vance | English/Math/Reading | Audio-tutorial,Auto-tutorial, Programmed, Lab,Packaged, Personalized,Audio-visual, Library, Prescribed | " " " | " " |
| Edward Turner | Math | Auto-tutorial,Programmed, Lab,Personalized | Ohio Coll Appl Sci | Cincinnati, Ohio |
| Eleanor M. Carlson<br>Mary Jane Frame | Curriculum Nrsng | Audio-tutorial,Auto-tutorial, Programmed,Lab,Packaged, Personalized,Audio-visual, Video,Prescribed | Sinclair Community Coll | Dayton, Ohio |

OHIO

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| John Elder | English | Programmed,Lab,Personalized, Prescribed | Sinclair Community College | Dayton, Ohio |
| B. Albert Friedman | Data Processing | Computer | " " " | " " |
| Louise B. Katz | Allied Medicine | Lab only | " " " | " " |
| Louise S. McCants | Mathematics | Lab,Personalized, Project, Computer, Library,Small groups | " " " | " " |
| -- | Dev. Ed. | Audio-tutorial,Lab, Packaged,Personalized | Central Ohio Tech | Newark, Ohio |
| -- | Business (Computer Prog) | Project,Computer | " " " | " " |
| -- | Business | Lab | " " " | " " |
| -- | Health | Tutorial | " " " | " " |
| -- | Health | Personalized | " " " | " " |
| Johnetta Bonner Mixon | Nursing-Ed-Counseling | Lab,Packaged, Library Personalized,Audio-visual | Cuyahoga Community Coll. | Cleveland, Ohio |
| Stanley J. Kloser | Reading/Writing | Programmed,Lab,Packaged, Personalized,Audio-visual, Video,Computer,Library, Prescribed | " " " | " " |
| Frances M. Franklin | Composition | Packaged | " " " | " " |
| Mrs. Mary Lou Conlin | Composition | Lab,Personalized, Prescribed | " " " | " " |

OHIO

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| -- | Mathematics | Audio-tutorial,Programmed, Personalized,Audio-visual | Cuyahoga Community Coll. | Cleveland, Ohio |
| Mrs. Kathleen S. Miles | English Comp | Audio-tutorial,Contract, Packaged,Personalized, Audio-visual,Group work | " | " |
| Pamela Phillips | Lit/Theatre | Personalized,Library, Independent Study | " | " |
| Marilyn Paul | Educ/Hist/Art | Audio-tutorial,Programmed, Contract,Lab,Packaged,Personalized | " | " |
| Prof.Margaret R. Taber | Elect/Electronic Engr. | Audio-tutorial,Keller,Lab, Packaged,Personalized,Audio-visual,Modified Keller | " | " |

## OKLAHOMA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| P. D. Reynolds | Math | Audio-tutorial,Auto-tutorial,Programmed, Contract,Keller,Lab, Personalized,Project, Audio-visual,Prescribed | Claremore Junior College | Claremore, Okla. |
| Michael L. Schooling | Natural Science | Audio-tutorial,Auto-tutorial,Personalized, Audio-visual | " | " |
| -- | Bus.Ed./Higher Ed | Project | " | " |
| Ivan Lurz | Biology/Botany | Auto-tutorial,Personalized, Audio-visual,Prescribed, Individualized Lab Instr. | " | " |
| Robert Curry | Physics/Math | Contract,Project | " | " |
| Jerry E. Smith | Math | Audio-tutorial,Programmed, Contract,Lab,Personalized, Audio-visual | " | " |
| Elwyn Isaacs | Sociology/Okla Hist | Programmed,Contract, Packaged,Personalized, Prescribed | " | " |
| Floretta Haggard | Microbiology/Chem | Audio-tutorial,Lab, Personalized,Library, Prescribed | " | " |
| Leon P. Semkoff | Math | Audio-tutorial,Programmed, Contract,Laboratory, Personalized,Prescribed | " | " |

OKLAHOMA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Larry D. Vickers | Math | Audio-tutorial,Programmed, Contract,Lab,Personalized, Audio-visual,Prescribed | Claremore Jr.Coll. | Claremore, Okla. |
| Eddie J. Ary | Economics/Accounting | Contract,Packaged,Project, Audio-visual | " " " | " " |

## SOUTH DAKOTA

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Sr.Veronica Ogden BS MT ASCP | Physical Science | Audio-tutorialLab, Personalized,Audio-visual, Combination structured Lect. | Presentation Coll. | Aberdeen S. Dakota |
| Sr.M.Bonaventiere R.N.M.Ed. | Education | Audio-tutorial,Auto-tutorial,Lab,Packaged, Personalized,Project, Audio-visual,Video, Library,Prescribed | " " | " " " |
| Sr. Claudia McNamara | Anat/Physiology | Audio-tutorial,Auto-tutorial,Packaged,Audio-visual, Library,Prescribed, A & P Resources | " " | " " " |
| Sr. Jane Frances Lamm | Biology/Nutrition | Programmed Lab, Personalized,Project, Library,Prescribed | " " | " " " |

## WISCONSIN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Ms. Leslie Klemens | Gen Sci/Dent Hyg | Auto-tutorial,Programmed, Lab,Packaged | Gateway Tech Institute | Kenosha, Wis. |
| Nellie Frazee | Nursing | Auto-tutorial,Programmed, Laboratory | " | " |
| Hugh E. Wheeler | Mech Drafting | Audio-tutorial,Lab,Packaged," Personalized,Audio-visual, Video,Prescribed | " | " |
| -- | Mech Drafting | Lab,Personalized,Project, Audio-visual | " | " |
| Dorothy Goodman | Business Educ. | Lab,Packaged,Project, Prescribed | " | " |
| Dave Dosemagen | Vocational Ed. | Programmed | " | " |
| Nancy Kaprelian | Nursing | Audio-tutorial,Auto-tutorial,Programmed, Laboratory,Packaged, Personalized,Auvio-visual, Video, Library,Prescribed Simulations/Practicum, Discussion/Lecture | " | " |
| Ned Perri | Business/Accounting | Personalized,Audio-visual | " | " |
| Mrs. Mary Foege | Economics/English | Auto-tutorial,Programmed, Audio-visual | " | " |

## WISCONSIN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| LeRoy J. Nyquist | Bus Ed | Audio-tutorial | Blackhawk Tech Institute | Beloit, Wisc |
| Rheta Grant | Keypunch | Audio-visual-tutotorial | " " " | " " |
| -- | Office Occupations | Lab, Personalized, Pres-ribed,Audio-visual-tutorial | " " " | " " |
| Diane C. Whiteford | Marketing/Retailing | Programmed,Lab,Packaged, Personalized,Project, Audio-visual,Library, Prescribed, Lecture-teacher/transparencies | Western Wisc.Tech.Inst. | LaCrosse, Wisc. |
| Mrs. Marion T. Anderson | Secretarial Science | Audio-tutorial,Lab, Audio-visual,Prescribed | " " " " | " " |
| Allan Rusch | Mech Design/Tech Draw | Packaged,Audio-visual, Lecture/Lab | " " " " | " " |
| Carl H. Mueller | Soils/Agronomy | Lab,Packaged,Personalized, Audio-visual | " " " " | " " |
| Keith R. Valiquette | Social Sci/Biol Sci | Packaged,Personalized, Audio-visual,Prescribed | " " " " | " " |
| Lois Durall | Reading | Audio-tutorial,Auto-tutorial,Programmed, Lab, Packaged,Personalized, Audio-visual,Prescribed, Learning lab | " " " " | " " |
| James M. Lloyd | Soc/Psych | Contract,Packaged,Project, Audio-visual,Prescribed | " " " | " " |

## WISCONSIN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Joyce Rosso | Economics | Audio-tutorial,Programmed, Personalized,Project, Audio-visual,Library, | Western Wisc.Tech.Inst. | LaCrosse,Wisc. |
| Donald R. Nontelle | English | Auto-tutorial,Packaged, Personalized,Library | " | " |
| David Nelson | Math/Physics | Audio-tutorial,Programmed, Packaged,Audio-visual,Video | " | " |
| Charles R. Cooley | Physics/Math | Audio-tutorial,Lab,Packaged, Video | District One Tech Inst. | Eau Claire,Wisc. |
| Mrs. M. Helene Carroll | Typing | Audio-tutorial,Audio-visual, | " | " |
| Lewis P.Mallow,Jr. | Drafting Mech Des. | Lab,Project,Audio-visual | " | " |
| Mrs. Sandy Granunder | Sec Sci | Contract,Personalized | " | " |
| Ann Hanson | Business Educ | Audio-tutorial,Lab, Personalized,Audio-visual | " | " |
| -- | Math | Programmed,Packaged, Prescribed | Waukesha County Tech Inst. | Pewaukee, Wisc. |
| Robert Tennessen | Electronics | Lab,Packaged,Personalized, Project,Audio-visual,Library | " | " |
| Barbara Ollhoff | Non-textiles/Retail Fash. | Contract,Lab,Packaged, Personalized,Project,Audio-visual,Video,small group sessions | " | " |
| Mary Sue Koeppel | Communication/Writing Lab | Programmed,Lab,Packaged, Contract,Audio-visual | " | " |

## WISCONSIN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Helen Jankowski | Human Anatomy | Packaged,Audio-visual | Waukesha County Tech Inst | Pewaukee, Wisc. |
| Dr. Jan Wurst Phelps | Botany/Zoology | Audio-tutorial,Auto-tutorial,Laboratory, Personalized,Project, Audio-visual,Library | U.of Wisc. Ctr. | Baraboo, Wisc. |
| James A. Schwaubach | Art | Audio-visual | " " " | " " |
| Linda A. Smith | Reading/Study Skills | Auto-tutorial,Programmed, Packaged,Personalized,Audio-visual,Library,Prescribed | " " | " " |
| R. B. Oesting | Biochem/Math | Personalized,Project,Audio-visual, Computer,Library,Prescribed | " " " | " " |
| -- | Math | Audio-tutorial,Programmed, Lab,Packaged | " " " | " " |
| Wendell D. Bell | Biomedical Sci. | Audio-tutorial,Lab, Video,Lecture | " " " | " " |
| Bettye Roberts | Nursing Educ. | Auto-tutorial | " " " | " " |
| Marian Brunscheen | Business Ed. | Audio-tutorial, Auto-tutorial,Lab, Packaged,Audio-visual | " " " | " " |
| Gary Moldenhauer | Voc Ed/Welding | Audio-tutorial,Programmed, Laboratory,Packaged, Audio-visual,Library | " " " | " " |

## WISCONSIN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| -- | Comm Art | Contract,Lab,Packaged, Personalized,Audio-visual | Western Wisc. Tech.Inst. | LaCrosse,Wisc. |
| Jane A. Travis | Nursing | Auto-tutorial,Programmed, Lab,Packaged,Personalized, Audio-visual,Video,Library | " " " " " " | |
| Mrs. Kay Sammarton | Ward Clerk Program | Auto-tutorial,Programmed, Laboratory,Packaged,Personalized, Audio-visual,Computer,Library, Prescribed | " " " " " " | |
| Pearl Ball-Vought | Nursing | Auto-tutorial,Programmed, Packaged,Personalized, Audio-visual,Video, Library | " " " " " " | |
| Monna Thompson | Nursing | Auto-tutorial,Programmed, Lab,Packaged,Personalized,Audio-visual,Video,Library, Conference Individual student/instructor | " " " " " " | |
| Ruth Anderson | Nursing | Audio-tutorial,Auto-tutorial, Lab,Programmed,Packaged, Video, Personalized,Audio-visual,Prescribed | " " " " " " | |
| Guineth Sweeney | Secretarial | Auto-tutorial,Programmed, Lab,Packaged,Personalized, Project | Lakeshore Tech Institute | Cleveland,Wisc. |
| Nancy Skebba | Keypunch | Audio-tutorial,Packaged, Audio-visual | " " " " | |

## WISCONSIN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| J. Curt Sharp | Secretarial Science | Lab,Packaged, Audio-visual | Lakeshore Tech Inst | Cleveland, Wisc. |
| David Hickman | Psych/Soc | Packaged,Personalized, Project,Audio-visual | " " " | " " |
| Virginia W.McIntyre | Human Relations | Programmed,Contract, Packaged | " " " | " " |
| Mel DeSwarte | Voc Ed | Audio-tutorial,Programmed, Lab,Packaged,Audio-visual, Video,Library | " " | " " |
| Paul Dietzman | Math | Programmed,Prescribed | " " " | " " |
| -- | Business Ed. | Audio-tutorial,Programmed, Lab,Packaged | " " | " " |
| Royal W. Natzke | Lay Ministry | Contract/Project | Concordia College | Milwaukee, Wisc. |
| Dr. Martin A. Haendschke | Paraprofessional Projects | Project,Prescribed | Milwaukee Area Tech Coll | " " |
| Mrs. Katherine A. Gansheroff | English | Audio-tutorial, Auto-tutorial,Lab,Packaged, Personalized,Project, Audio-visual,Video,Prescribed | " " " " | " " |
| Edward S. Frankiewicz | Speech | Audio-tutorial,Personalized, Prescribed,lecture,discussion, student perf. | " " " " | " " |
| Donald L. Marlow | Tech Engrng. | Packaged,Video,Project | " " " " | " " |
| William E. Slezewski | Mech. Tech. | Packaged,Video | " " " " | " " |

## WISCONSIN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Carol Miller | Educ. | Audio-tutorial,Auto-tutorial,Programmed, Lab,Packaged,Personalized, Audio-visual,Video,Peer-mediated Instruction | Milwaukee Area Tech Coll | Milwaukee, Wisc. |
| Mildred K. Polisky | Business Educ. | Audio-tutorial,Audio-visual, Personalized | " | " |
| Robert D. Reich | Botany,Ecology | Audio-tutorial,Contract, Laboratory,Packaged, Personalized,Project,Prescribed | " | " |
| Paul T. Witzke | Math | Programmed,Personalized | " | " |
| Gerald MacLab | Math | Audio-tutorial,Programmed, Personalized | " | " |
| Donald Weidensee | Biology/Counseling | Auto-tutorial,Programmed, Laboratory,Audio-visual, Video,Library | " | " |
| Mrs. Leah Temkin | Reading | Audio-tutorial,Auto-tutorial, Programmed,Laboratory,Packaged, Personalized,Audio-visual,Video, Prescribed,Kinesthetic techniques | " | " |
| Earl C. Rustad | Business Ed. | Audio-tutorial,Personalized, Audio-visual | " | " |
| Altha Robison | Independent Learning Ctr. | Audio-tutorial,Programmed, Lab,Packaged, Personalized, Audio-visual,Library | " | " |

## WISCONSIN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Eileen E. Iberg | English/Reading | Audio-tutorial,Programmed, Laboratory,Contract,Packaged, Personalized,Audio-visual, Library,Prescribed | Nicolet Coll/Tech Inst | Rhinelander, Wisc. |
| -- | Business | -- | " | " |
| Robert Sargent | M.S.S.W. | Programmed,Packaged, Personalized,Prescribed | " | " |
| | Learning Resource Ctr. | Programmed,Personalized, Audio-visual,Library | " | " |
| Marion F. Enli | English/History | Audio-tutorial,Programmed, Contract,Packaged, Personalized,Audio-visual, Library | " | " |
| Patrick Folgert | English | Personalized,Project,Library | " | " |
| Jack Feiereisen | Philosophy | Audio-tutorial,Personalized, Library,Tape, Self-examination, Workbook,Course Examinations, Individualized Conferences | " | " |
| Lois Fryatt | Creative Writing | Varies w/students' needs and objectives | " | " |
| Gerri Riopel | French/Spanish | Personalized | " | " |
| -- | Botanical Ecology | Tape/Text | " | " |

## WISCONSIN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Jim Oravecz | Automotive Mechanics | Personalized,Packaged, Audio-visual | Nicolet Coll/Tech Inst | Phinelander,Wisc. |
| Robert Germer | Business | Programmed,Lab,Packaged, Personalized,Project | " " " " | " " |
| Roger A. Sabota | Math | Personalized | " " " " | " " |
| Arthur Koskela | Math/Chemistry | Auto-tutorial | Mid-State Technical Inst. | Wisconsin Rapids,Wisc. |
| Ross Hemmingson | Dist.Educ./Real Est. | Programmed | " " " " | " " " |
| Irene Acott | Business Educ. | Packaged | " " " " | " " " |
| Joy M. Hess | Upper Elem Educ | Audio-tutorial, Programmed, Personalized,Prescribed | " " " | " " " |
| John Foss | Math | Programmed | " " " " | " " " |
| Rita K. Schneider | Accounting | Lab | " " " " | " " " |
| Fern Casper | Social Studies | Audio-tutorial,Programmed, Personalized,Prescribed | " " " | " " " |
| A.D. Halverson<br>T.F. Harvieux | Math/Reading | Audio-tutorial,Auto-tutorial, Programmed,Contract,Lab, Packaged,Personalized,Project, Audio-visual,Video,Computer, Library,Prescribed | Wisc.Indianhead Tech Inst. | New Richmond,Wisc |

## WISCONSIN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Jack O'Connell | Adult Basic Ed. | Audio-tutorial,Auto-tutorial,Programmed, Contract,Lab,Packaged, Personalized,Audio-visual, Library,Prescribed | Wisc.Indianhead Tech Inst | New Richrond, Wisc. |
| Michael J. Gagner | Dist Education | Programmed,Contract, Personalized,Library | " " " " | Superior, Wisc. |
| Marilyn Santori | Bus Education | Audio-tutorial,Programmed, Packaged | " " " | " " " |
| Loraine K. Matushak | Bus Education | Audio-tutorial, Programmed, Packaged | " " " | " " " |
| Roberta J. Lindemann | Bus Education | Audio-tutorial,Programmed, Packaged | " " " | " " " |
| Diane M. Peterson | -- | Audio-tutorial,Programmed, Contract,Lab,Personalized, Project | " " " | Rice Lake, Wisc. |
| Leila K.Haight | Communications | Audio-tutorial,Programmed, Packaged,Personalized, Audio-visual,Prescribed | " " " | " " " |
| Mary Ellen Filkins | Business/Clerical Math | Contract,Lab,Personalized, Prescribed | " " " | " " " |
| Mrs. Vivian Quinn | Business Educ. | Audio-tutorial,Lab | " " " | " " " |
| Gene Lorenz | Math | Packaged | " " " | " " " |
| Robert Thompson | Business Educ. | Audio-tutorial,Packaged, Audio-visual,Prescribed | " " " | " " " |

## WISCONSIN

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Arthur J. Sullivan | Communications/Soc Sci | Packaged | Wisc.Indianhead Tech Inst | Rice Lake, Wisc. |
| Kary Boyd | Ele. Education | Packaged, Cassette Learning Packages | " " " " | Ashland, Wisc. |

## WYOMING

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| Alfred Koeneke | Business | Audio-tutorial,Programmed | Central Wyoming Coll. | Riverton, Wyoming |
| Mel McFetridge | Accounting | Lab,Personalized,Project | " " " | " " |
| Phyllis Lassiter | Business | Audio-visual-tutorial | " " " | " " |
| Stanley O. Hjerleid | Electronics | Programmed, Lab, Packaged,Audio-visual, Library | " " " | " " |
| Ralph G. Schaefer | Elect. Engineering | Lab,Packaged | " " " | " " |
| -- | Business Educ. | Audio-visual Tutorial | Western Wyoming College | Rock Springs, Wyoming |
| Linda Webster | Reading/Math | Audio-tutorial,Programmed, Lab,Packaged,Audio-visual, Prescribed | " " " | " " |
| Karen Love | Math/Reading | Audio-tutorial,Programmed, Lab,Packaged,Audio-visual, Prescribed | Sheridan College | Sheridan, Wyoming |
| Osea C. Nelson | English | Audio-tutorial,Auto-tutorial, Programmed,Lab,Packaged, Personalized,Audio-visual, video,Library,Prescribed | " " | " " |
| Aro, John H. | English/Humanities | Programmed,Audio-tutorial, Laboratory,Packaged | " " | " " |
| -- | Psych/Music/Meteorology | Audio-tutorial,Auto-tutorial, Programmed,Laboratory,Packaged, Personalized,Library | " | " " |

## WYOMING

| NAME | SUBJECT AREA | FORMAT | INSTITUTION | LOCATION |
|---|---|---|---|---|
| -- | Developmental Areas | Audio-tutorial, Contract, Lab, Personalized, Project, Audio-visual, Library, Prescribed, Semi-structured classroom instruction | Laramie County Comm Coll | Cheyenne, Wyoming |
| Nancy M. Lutz | Office Occupations | Programmed, Contract, Lab, Personalized, Project, Audio-visual, Video, Library, Prescribed | " | " |
| Richard G. Jones | Voc Tech | Lab, Personalized, Project, Audio-visual, Flip Charts | " | " |
| Larence H. Chitty | Industrial Arts | Lab, Personalized, Project, Audio-visual Library | " | " |

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